District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID:	nAPP2208846424
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

				Рошог	ore r arej	
Responsible Party: WPX Energy Permian, LLC O			OGRID: 24	OGRID: 246289		
Contact Name: Jim Raley			Contact Telephone: 575-689-7597			
Contact email: jim.raley@dvn.com				Incident # (assigned by OCD): nAPP2208846424		
Contact mail	ling address:	5315 Buena Vis	ta Dr, Carlsbad, N	NM, 8822	20	
			Location	n of R	elease So	ource
Latitude 32.0072937 L. (NAD 83 in decimal degree						-103.9659729 nal places)
Site Name: P	ecos Federal	#001Y			Site Type: 0	Oil Production Site
Date Release	Discovered:	: 3/21/2022			API# (if appl	licable): 30-015-24875
Unit Letter	Section	Township	Range		Count	ty
P	27	26S	29E	Edo	dy	
Ma 1 o	Materia					justification for the volumes provided below)
Crude Oi		Volume Releas				Volume Recovered (bbls): 3
Produced	Water	Volume Releas	. ,		Volume Recovered (bbls):	
Is the concentration of dissolved chloric produced water >10,000 mg/l?			chloride	in the	⊠ Yes □ No	
Condensa	ate	Volume Releas	ed (bbls)			Volume Recovered (bbls)
Natural C	Natural Gas Volume Released (Mcf)				Volume Recovered (Mcf)	
Other (describe) Volume/Weight Released (provide units		de units)	ts) Volume/Weight Recovered (provide units)			
	w allowed the of which 3 b	obls was recovere	d. Winds allowed	l approx.	2 bbls to imp	eleased to secondary pact soils offsite. coverd fluids (bbls)

Received by OCD: 5/8/2023 77:06:50 AMAM State of New Mexico
Page 2 Oil Conservation Division

Page 2 2 5 3 5 7

Incident ID:	nAPP2208846424
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respon	sible party consider this a major release?
☐ Yes 🛛 No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	Initial Ro	esponse
The responsible	party must undertake the following actions immediatel	unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	I managed appropriately.
P. 1015 20 0 P. (1) N.		
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig	required to report and/or file certain release notinent. The acceptance of a C-141 report by the Cate and remediate contamination that pose a thre	pest of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
	·	Title: Environmental Professional
Signature:		Date: 12/29/2022
email: jim.raley@dvn.co	om	Telephone: 575-689-7597
OCD Only		
Received by:		Date:

Page 3 of 357

Incident ID:	nAPP2208846424
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no taler than 90 days after the release discovery date.			
What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)		
Did this release impact groundwater or surface water?	☐ Yes ☒ No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🏻 No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🏻 No		
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No		
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🛛 No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes No		
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No		
Did the release impact areas not on an exploration, development, production, or storage site?	Yes No		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.			
Characterization Report Checklist: Each of the following items must be included in the report.			
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination 			

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release

Photographs including date and GIS information

■ Laboratory data including chain of custody

Boring or excavation logs

Topographic/Aerial maps

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	1 188 3 1 1 1 9
Incident ID:	nAPP2208846424
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name: Jim Raley	Title: Environmental Professional		
Signature: In Right	Date:		
email: _jim.raley@dvn.com	Telephone: 575-689-7597		
OCD Only			
Received by: Jocelyn Harimon	Date: 12/29/2022		

Page 5 5 5 3 5 7

Incident ID:	nAPP2208846424
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.
 ☑ Detailed description of proposed remediation technique ☑ Scaled sitemap with GPS coordinates showing delineation point ☑ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29.1 ☑ Proposed schedule for remediation (note if remediation plan times) 	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: _ Jim Raley	Title: Environmental Professional
Signature:	Date: 12/29/2022
email: jim.raley@dvn.com	Telephone: 575-689-7597
OCD Only	
Received by: Jocelyn Harimon	Date: 12/29/2022
☐ Approved	Approval
Signature: Jennifer Nobui	Date: 01/24/2023

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAB1431650115
District RP	2RP-2595
Facility ID	
Application ID	

Release Notification

Responsible Party

Dagmamailala	Doutry		_	OGRID			
Responsible Party WPX Energy, Inc. Contact Name Lim Poley					240289		
Jili Kaley					Contact Telephone (575)689-7597		
Contact ema	J1111.141	ey@dvn.com		Incident #	(assigned by OCD) NAB1431650115		
Contact mail	ing address	5315 Buena Vi	sta Dr., Carlsbad, 1	NM 88220			
			Location	of Release So	ource		
Latitude 3	2.00729457	06848		Longitude _	-103.965986188431		
			(NAD 83 in dec	cimal degrees to 5 decin	nal places)		
Site Name]	Pecos Federa	al 001Y		Site Type	Site Type Oil and Gas Well		
Date Release	Discovered	11/10/2014		API# (if app	plicable) 30-015-24875		
Unit Letter	nit Letter Section Township Range Cou			Coun	nty		
P	27	26S	29E	Edd	<u>·</u>		
					<u>.</u>		
Surface Owner	r: State	X Federal T	ribal Private (A	Name:)		
			Nature and	l Volume of I	Release		
	Materia	l(s) Released (Select a	ll that apply and attach	calculations or specific	e justification for the volumes provided below)		
Crude Oi	1	Volume Release	ed (bbls)		Volume Recovered (bbls)		
X Produced	Water	Volume Release	ed (bbls) 25		Volume Recovered (bbls) 25		
Is the concentration of dissolved chlorid produced water >10,000 mg/l?				hloride in the	ne X Yes No		
Condensate Volume Released (bbls)					Volume Recovered (bbls)		
Natural G	Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units)		e units)	Volume/Weight Recovered (provide units)				
Cause of Rel	ease				1		
Transfer pu A vacuum	mp suction truck was us	sed to recover fre	e liquids. The suc	ction line, formerly	5 bbls of produced water to lined secondary containment. y rubber hose construction, was replaced with steel line. red with vacuum truck.		

D	ira	a	77	56	2	5	1
1	$u_{\mathcal{S}}$	g	7 K	\boldsymbol{y}	9	J)	7

Incident ID	NAB1431650115
District RP	2RP-2595
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
X Yes No	
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.
X The impacted area ha	s been secured to protect human health and the environment.
X Released materials ha	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
X All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions describe	d above have <u>not</u> been undertaken, explain why:
Per 19 15 29 8 B (4) NM	IAC the responsible party may commence remediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
public health or the environ	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
	ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: _Jim Ra	aley _{Title:} Environmental Professional
Signature: / Ray	Date:
email: jim.raley@c	dvn.com
OCD Only	
Received by:	Date:

Page 8 of 357

Incident ID	NAB1431650115
District RP	2RP-2595
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no taler man 70 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Yes X No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes X No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	X Yes No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	Yes X No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver- contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- X Field data
- X Data table of soil contaminant concentration data
- X Depth to water determination
- X Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- X Boring or excavation logs
- X Photographs including date and GIS information
- Topographic/Aerial maps
- X Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 5/8/2023 72:06:50 AMAM State of New Mexico Page 4 Oil Conservation Division Page 9 26 357

Incident ID	NAB1431650115
District RP	
	2RP-2595
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thraddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Jim Raley	Title: Environmental Professional
Signature: In Rife	Date:12/29/2022
email:_jim.raley@dvn.com	Telephone:575-686-7597
OCD Only	
Received by:	Date:

Page 400 f 357

Incident ID	NAB1431650115
District RP	2RP-2595
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation point Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.1 Proposed schedule for remediation (note if remediation plan tim	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con-	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name:Jim Raley	Title: Environmental Professional
Signature: In Physics	Date: 12/29/2022
email:jim.raley@dvn.com	Telephone: 575-686-7597
OCD Only	
Received by:	Date:
Approved	Approval
Signature:	Date:



DEFERRAL REQUEST REPORT

Site Location:

Pecos Federal #001Y Eddy County, New Mexico Incident Numbers nAPP2208846424 & nAB1431650115

May 5, 2023 Ensolum Project No. 03A1987014

Prepared for:

WPX Energy Permian, LLC 5315 Buena Vista Drive Carlsbad, New Mexico 88220 Attention: Jim Raley

Prepared by:

Ashley N. Giovengo Senior Engineer

Daniel R. Moir, PG Senior Managing Geologist

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3.0	DEF	ERRAL REQUEST
		REFERENCE MATERIALS
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		Figure 2: Delineation Soil Sample Locations
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Incident Numbers nAPP2208846424 & nAB1431650115

Page 1

1.0 INTRODUCTION

Ensolum, LLC (Ensolum) has prepared this *Deferral Request Report* (DRR) on behalf of WPX Energy Permian, LLC, hereafter referred to as WPX, regarding produced water and crude oil releases at the Pecos Federal #001Y (Site), located in Unit P, Section 27, Township 26 South, Range 29 East, in Eddy County, New Mexico (**Figure 1**). Global Positioning System (GPS) coordinates for the Site are as follows: North 32.0072937 and West -103.9659729. Surface owner of the Site is Federal Land managed by the Bureau of Land Management (BLM).

This DRR addresses remedial actions associated with Incident Numbers nAPP2208846424 and nAB1431650115. Impacted soil has been excavated to the maximum extent practicable (MEP) in accordance with the approved *Remediation Work Plan Addendum* (RWPA) and a 20-mil liner has been installed to act as a barrier against chloride migration. Remaining impacts located beneath the earthen containment could not be removed without the deconstruction of production equipment or without compromising the safety of personnel or the integrity of said production equipment. The remaining soils do not appear to pose imminent risk to human health, safety, or the environment. As such, WPX respectfully requests deferral of those soils until there is major reconstruction of projection equipment or the production well is abandoned and the facilities are removed.

1.1 Background

On March 21, 2022, a tank overflow caused the release of approximately 8 barrels (bbls) of crude oil at the Site; 6 bbls of oil was released inside the earthen containment and winds carried the remaining 2 bbls off-pad. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) and filed a Corrective Action Form C-141 (Form C-141) on March 29, 2022. Subsequently, NMOCD assigned Incident Number nAPP2208846424 to the release.

The release that occurred on March 21, 2022, overlapped a historical produced water spill that occurred on November 10, 2014. The suction line on a transfer pump developed a leak, which resulted in the release of 25 bbls of produced water to earthen containment. The Incident Number associated with the historical release is nAB1431650115.

On December 29, 2022, Ensolum submitted an addendum to the existing *Remediation Work Plan* summarizing additional delineation sampling at the Site; the approved RWPA can be viewed on the NMOCD web portal. The addendum identified two areas of concern; one area on the north side of the earthen containment and one area on the west side of the containment. The RWPA proposed excavation of the two areas of concern and proposed the installation of a 20-mil liner. The RWPA was approved by NMOCD on September 20, 2022, with one condition:

"Remediation Plan Approved with Conditions. Please address chloride concentrations in PH-13 at 2' (1,460 mg/kg)."

1.2 Surface and Ground Water

The United States Geological Survey (USGS) indicates the nearest depth to groundwater measurement is 53.46 feet below ground surface (bgs) and is located approximately ½-mile northeast of the Site as shown in **Figure 1**. The Site is greater than 300 feet from any riverine or wetland and greater than 1,000 feet to a freshwater well or spring; the Site is not located within a 100-year floodplain. The water well log for relevant wells utilized to estimate depth to water beneath the Site is included in **Appendix A**.



1.3 Karst Potential

According to data from the BLM, this Site is located within a high karst potential area as shown in **Figure 1**. Indicators of surface and/or subsurface karst features have not been observed at or around the Site.

1.4 Site Characterization

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release per Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the C-141 Form titled Site Assessment/Characterization. Potential Site receptors are identified on **Figure 1**. Based on the results of the Site Characterization, the applicable Closure Criteria were applied:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbon (TPH): 100 mg/kg
- Chloride: 600 mg/kg

2.0 REMEDIATION ACTIVITIES

Beginning on April 17, 2022, Kelly Oilfield Services scraped the impacted area on the north side of the containment and removed accessible contamination from inside the tank battery containment. On March 24, 2023, the area of concern in sample location PH13, depicted on Figure 2, was excavated to a depth of 7 feet bgs per the approved RWPA. Following the completion of excavation activities in the vincity of soil sample location PH13, Ensolum personnel collected five composite confirmation samples from the floor of the excavation (FS01 through FS05) at depths ranging from 4 feet to 7 feet bgs. Five composite side walls samples (SW05 through SW09) were collected at depths ranging from the ground surface to 7 feet bgs. All soil samples were properly packaged, preserved, and transported to Envirotech, Inc. following proper chain-of-custody procedures and were analyzed for the following constituents of concern (COCs): TPH following United States Environmental Protection Agency (EPA) Method 8015D, BTEX following EPA Method 8021B, and chloride following EPA Method 300.0. Confirmation sample locations are identified on Figure 3.

Laboratory analytical results indicated all COC concentations for all confirmation samples were in compliance with the Closure Criteria with the exception of sidewall soil sample SW09, which is directly adjacent to the tank battery containment and represents the northern edge of the requested deferral area. Laboratory analytical results are presented in **Table 1** and laboratory analytical reports are included in **Appendix B**.

In order to address the area of concern on the west side of the containment as directed by soil sample locations PH11 and PH18, an area measuring approximately 2,230 square feet was excavated to a depth of 4 feet bgs and a 20-mil liner was installed over the entirety of the area (see **Photographic Log** in **Appendix C**). The area that extended beyond the proposed liner extent (PH15 and PH16) was excavated to a depth of 4 feet bgs and four composite confirmation samples (FS06 through FS09) were collected from that area (**Figure 3**). Sidewall soil samples SW01 through SW04 and SW10 were collected at depths ranging from the ground surface to 4 feet bgs (**Figure 3**).



Incident Numbers nAPP2208846424 & nAB1431650115

Laboratory analytical results indicated TPH and chloride concentrations for all four confirmation floor soil samples exceeded the Closure Criteria for the Site at 4 feet bgs as well as sidewall sample SW10, collected between the ground surface and 4 feet bgs. Confirmation sidewall soil sample SW10 is located directly adjacent to the tank battery containment and reflects the western edge of deferred soil.

Ensolum personnel returned to the Site on April 11, 2023, and an area measuring approximately 670 square feet was excavated to a depth of 6 feet bgs. Floor soil samples FS06 through FS09 were recollected; FS09 exceeded the Closure Criteria for chloride at 6 feet bgs. Ensolum personnel returned to the Site on April 14, 2023, to continue excavation and to resample FS09. Floor sample FS09 met the strictest Closure Criteria for all COCs at 9.5 feet bgs. Due to the extended excavation floor, confirmation sidewall soil samples SW11 and SW12 were collected at depths ranging from the ground surface to 6 feet bgs. Laboratory analytical results indicated COC concentrations in soil from the two sidewall samples were compliant with the Closure Criteria.

Upon completion of the excavation, the 20-mil liner was extened to cover sample locations FS06-FS09. The spill areas were backfilled and approximately 1,400 cubic yards of contaminated soil was hauled to an approved disposal facility.

Laboratory analysis results are presented in **Table 2** and **Table 3** and laboratory analytical reports are included in **Appendix B**. The final C-141s are included in **Appendix D** and NMOCD correspondence emails are provided in **Appendix E**.

3.0 DEFERRAL REQUEST

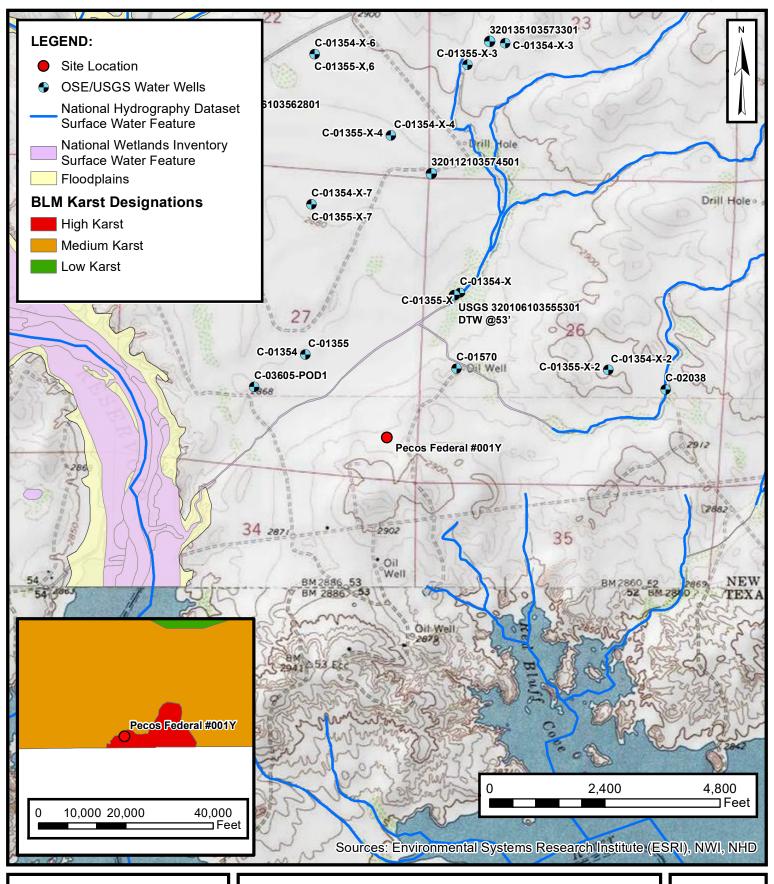
On behalf of WPX, Ensolum requests to defer approximately 870 cubic yards of contaminated soil located beneath the tank battery containment. Deferral is requested for the area indicated on **Figure 3** until there is major reconstruction of the production equipment within the secondary containment or the production well is abandoned, and reclamation activities commence based on the logic below.

- Due to the location of impacted soil beneath the earthen tank battery containment, it is not practical to remove for remediation. The battery is in production and would require shutting in for an extended period of time to remove impacted soil. Accessible material was excavated to the MEP.
- The release extent associated with Incident Number nAPP2208846424 has been horizontally and vertically delineated. Two additional areas of concern, both of which were vertically delineated, were remediated in accordance with the approved RWPA.
- Impacted soil in the vicinity of pothole soil sample PH13 at 2 feet bgs was addressed and contaminated soil was removed per the approved RWPA.
- A 20-mil liner was installed over the entirety of the excavation on the west side of the tank containment to prevent further chloride migration.
- All confirmation samples were below the Closure Criteria for the Site with the exception of soil in the vicinity of sidewall soil samples SW09 and SW10, which are located within the area of requested deferral (Figure 3).





Figures

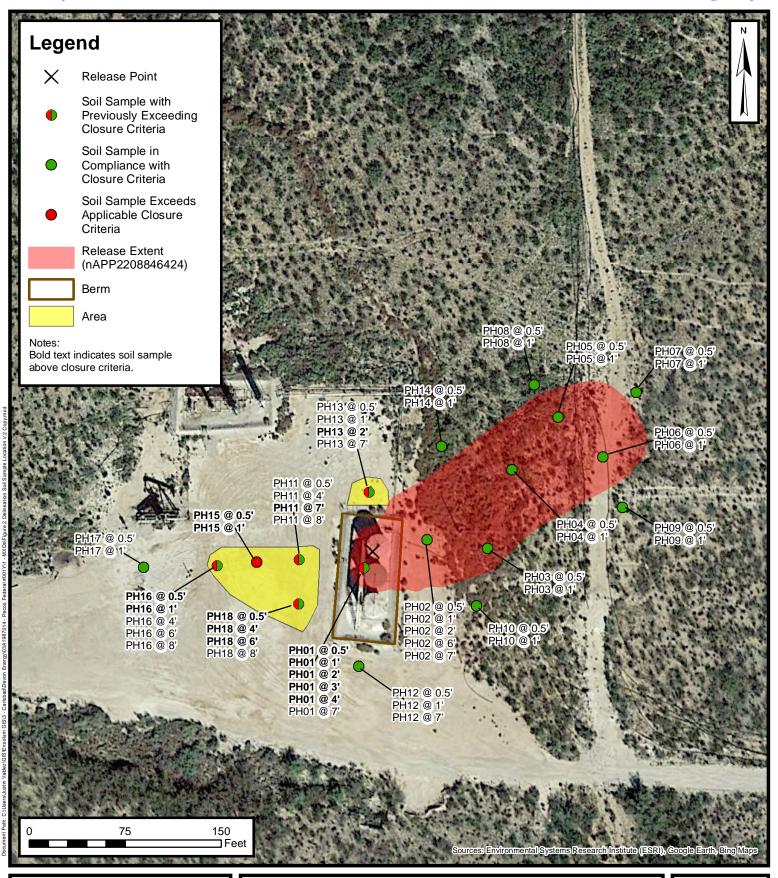




Site Location Map

Pecos Federal #001Y WPX Energy Permian, LLC 32.0142500, -103.9616667 Eddy County, NM FIGURE

#1

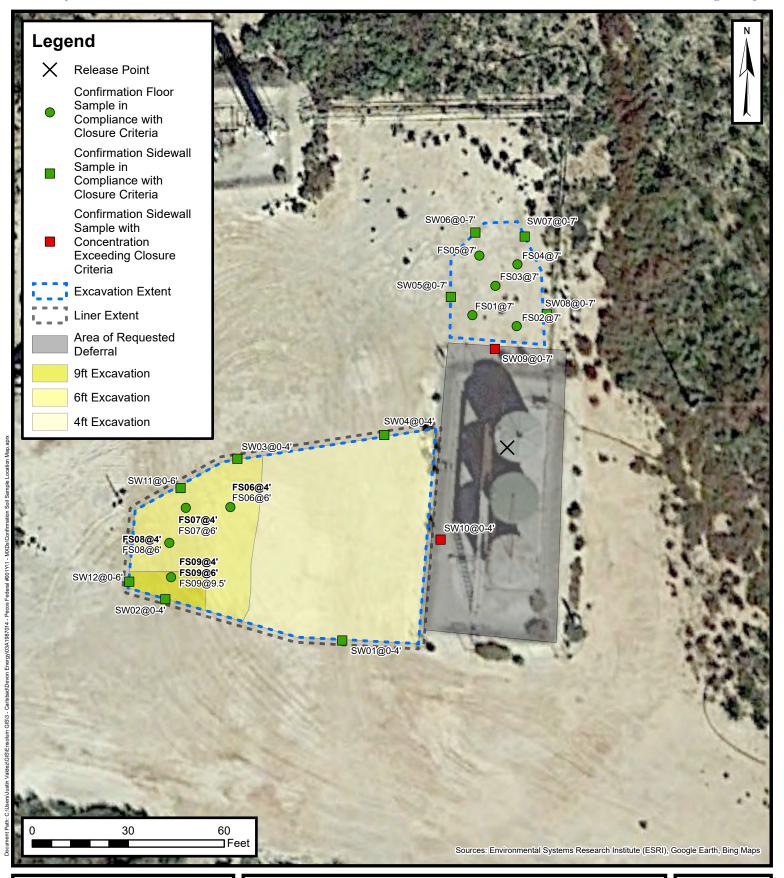




Delineation Soil Sample Locations

Percos Federal #001Y WPX Energy Permian, LLC Unit P, Section 27, Township 26S, Range 29E Eddy County, New Mexico **FIGURE**

2





Confirmation Sampling Map

Pecos Federal #001Y WPX Energy Permian, LLC Unit P, Section 27, Township 26S, Range 29E Eddy County, New Mexico FIGURE

3



Tables



TABLE 1 **SOIL SAMPLE ANALYTICAL RESULTS** WPX Energy Permian, LLC - Pecos Federal #001Y **Eddy County, New Mexico** Ensolum Project No. 03A1987014

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	100	600
				Delineation	Soil Samples				
PH01	04/18/2022	0.5	<0.00200	<0.00399	<49.9	763	222	985	361
PH01	04/18/2022	1	<0.00199	<0.00398	51.7	1,470	241	1,760	288
PH01	04/18/2022	2	<0.00200	<0.00399	<50.0	786	221	1,010	258
PH01	04/18/2022	3	<0.00199	<0.00398	<50.0	2,990	554	3,540	779
PH01	05/18/2022	4	<0.00201	<0.00402	<49.9	230	<49.9	230	233
PH01	05/18/2022	7	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	116
PH02	04/18/2022	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	186
PH02	04/18/2022	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	156
PH02	04/18/2022	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	116
PH02	05/18/2022	6	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	594
PH02	05/18/2022	7	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	534
PH03	04/18/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	10.6
PH03	04/18/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	6.41
PH04	04/18/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<4.97
PH04	04/18/2022	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<4.99
PH05	04/18/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	5.60

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in bold exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard for Soils Impacted by a Release

Ensolum 1 of 6



TABLE 1 CONT'D SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC - Pecos Federal #001Y

Eddy County, New Mexico
Ensolum Project No. 03A1987014

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	100	600
PH05	04/18/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	15.5
PH06	04/18/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	5.36
PH06	04/18/2022	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	7.50
PH07	04/18/2022	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<4.95
PH07	04/18/2022	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<5.04
PH08	04/18/2022	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<5.00
PH08	04/18/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	10.0
PH09	04/18/2022	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<4.97
PH09	04/18/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	6.71
PH10	04/18/2022	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	21.2
PH10	04/18/2022	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	112
PH11	05/18/2022	0.5	<0.00200	<0.00200	<50.0	70.6	<50.0	70.6	537
PH11	11/10/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	490
PH11	05/18/2022	7	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	4,740
PH11	11/10/2022	8	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	204
PH12	05/18/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	334

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard for Soils Impacted by a Release

Ensolum 2 of 6



TABLE 1 CONT'D

SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC - Pecos Federal #001Y
Eddy County, New Mexico

Ensolum Project No. 03A1987014

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	100	600
PH12	05/18/2022	1	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	382
PH12	05/18/2022	7	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	599
PH13	04/18/2022	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	279
PH13	04/18/2022	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	313
PH13	05/18/2022	2	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	1,460
PH13	05/18/2022	7	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	456
PH14	04/18/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	93.3
PH14	04/18/2022	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	248
PH15	05/18/2022	0.5	<0.00200	<0.00399	<50.0	<50.0	67.9	67.9	8,780
PH15	05/18/2022	1	<0.00198	<0.00396	147	<49.9	<49.9	147	1,570
PH16	05/18/2022	0.5	<0.00198	<0.00397	144	<50.0	<50.0	144	7,560
PH16	05/18/2022	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	673
PH16	11/10/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	211
PH16	11/10/2022	6	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	424
PH16	11/10/2022	8	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	221
PH17	05/18/2022	0.5	<0.00200	<0.00399	73.7	<49.9	<49.9	73.7	38.2

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard for Soils Impacted by a Release

Ensolum 3 of 6



TABLE 1 CONT'D SOIL SAMPLE ANALYTICAL RESULTS

WPX Energy Permian, LLC - Pecos Federal #001Y
Eddy County, New Mexico
Ensolum Project No. 03A1987014

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	100	600
PH17	05/18/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	37
PH18	11/10/2022	0.5	<0.00200	<0.00401	<50.0	66.9	91	157.9	4,080
PH18	11/10/2022	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	629
PH18	11/10/2022	6	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	600
PH18	11/10/2022	8	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	365

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard for Soils Impacted by a Release

Ensolum 4 of 6



TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC - Pecos Federal #001Y Eddy County, New Mexico Ensolum Project No. 03A1987014

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	100	600
				Excavation F	loor Soil Samples				
FS01	03/24/2023	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	270
FS02	03/24/2023	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	331
FS03	03/24/2023	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	296
FS04	03/24/2023	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	278
FS05	03/24/2023	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	302
FS06	03/27/2023	4	<0.0250	<0.0500	<20.0	428	<50.0	428	834
FS06	04/11/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	375
FS07	03/27/2023	4	<0.0250	<0.0500	<20.0	307	<50.0	307	877
FS07	04/11/2023	6	<0.0250	<0.0500	<20.0	40.0	<50.0	40.0	486
FS08	03/27/2023	4	<0.0250	<0.0500	<20.0	180.0	<50.0	180	656
FS08	04/11/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	411
FS09	03/27/2023	4	<0.0250	<0.0500	<20.0	250	<50.0	250	779
FS09	04/11/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	631
FS09	04/14/2023	9.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	306

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics
DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard for Soils Impacted by a Release

Ensolum 5 of 6



TABLE 3 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC - Pecos Federal #001Y Eddy County, New Mexico Ensolum Project No. 03A1987014

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	100	600
				Excavation Sid	ewall Soil Samples				
SW01	03/27/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	142
SW02	03/27/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	359
SW03	03/27/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	332
SW04	03/27/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	369
SW05	03/27/2023	0-7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	332
SW06	03/27/2023	0-7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	378
SW07	03/27/2023	0-7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	353
SW08	03/27/2023	0-7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	360
SW09	03/27/2023	0-7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	3,190
SW10	03/27/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	3,150
SW11	04/11/2023	0-6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	525
SW12	04/11/2023	0-6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	400

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard for Soils Impacted by a Release

Ensolum 6 of 6



APPENDIX A

Closure Criteria Supporting Documents



USGS Home **Contact USGS** Search USGS

National Water Information System: Web Interface

USGS Water Resources

Groundwater **United States** GO

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 🔊

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs

site_no list =

• 320106103555301

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320106103555301 26S.29E.26.13143

Eddy County, New Mexico

Latitude 32°00'51.3", Longitude 103°57'42.0" NAD83

Land-surface elevation 2,883.00 feet above NGVD29

The depth of the well is 140 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

				output .o			
Table	of data						
Tab-se	parated data						
Graph	of data						
Resele	ect period						
		?	Water	Water			

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1983-01-26		D	62610		2828.70	NGVD29	1	Z		
1983-01-26		D	62611		2830.22	NAVD88	1	Z		
1983-01-26		D	72019	54.30			1	Z		
1987-10-14		D	62610		2847.71	NGVD29	1	Z		
1987-10-14		D	62611		2849.23	NAVD88	1	Z		
1987-10-14		D	72019	35.29			1	Z		
1992-11-04		D	62610		2838.94	NGVD29	1	S		
1992-11-04		D	62611		2840.46	NAVD88	1	S		
1992-11-04		D	72019	44.06			1	S		
1998-01-28		D	62610		2829.99	NGVD29	1	S		
1998-01-28		D	62611		2831.51	NAVD88	1	S		
1998-01-28		D	72019	53.01			1	S		
2003-01-27		D	62610		2827.07	NGVD29	1	S	USG	S
2003-01-27		D	62611		2828.59	NAVD88	1	S	USG	S
2003-01-27		D	72019	55.93			1	S	USG	S
2013-01-09	19:00 UTC	m	62610		2825.19	NGVD29	1	S	USG	S

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
2013-01-09	19:00 UTC	m	62611		2826.71	NAVD88	1	S	USGS	
2013-01-09	19:00 UTC	m	72019	57.81			1	S	USGS	
2021-02-24	21:10 UTC	m	62610		2829.54	NGVD29	1	S	USGS	
2021-02-24	21:10 UTC	m	62611		2831.06	NAVD88	1	S	USGS	
2021-02-24	21:10 UTC	m	72019	53.46			1	S	USGS	

Exp	lana	atio	r

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	А	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site <u>Automated retrievals</u> <u>Help</u> Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2023-04-19 16:37:22 EDT

0.32 0.26 nadww01





APPENDIX B

Laboratory Analytical Reports & Chain-of-Custody Documentation

Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2204-2

Laboratory Sample Delivery Group: 03A198701

Client Project/Site: Pecos Fed 1Y

Revision: 1

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Joseph Hernandez

J. WAMER

Authorized for release by: 5/19/2022 1:48:12 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

The Expert

····· Links ······

Review your project results through

EOL

Have a Question?

Visit us at:

www.eurofinsus.com/Env
Released to Imaging: 1/23/2024 10:57:26 AM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

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10

12

13

Client: Ensolum
Laboratory Job ID: 890-2204-2
Project/Site: Pecos Fed 1Y
SDG: 03A198701

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Definitions/Glossary

Client: Ensolum Job ID: 890-2204-2 Project/Site: Pecos Fed 1Y

SDG: 03A198701

Qualifiers

GC VOA Qualifier

Qualifier Description *+ LCS and/or LCSD is outside acceptance limits, high biased.

F1 MS and/or MSD recovery exceeds control limits.

Indicates the analyte was analyzed for but not detected. U

GC Semi VOA

Qualifier **Qualifier Description**

S1+ Surrogate recovery exceeds control limits, high biased.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid **CFU** Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Project/Site: Pecos Fed 1Y

Job ID: 890-2204-2

SDG: 03A198701

Job ID: 890-2205-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2205-1

Receipt

The samples were received on 4/19/2022 1:33 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-24099 and analytical batch 880-24304 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-24483 and analytical batch 880-24523 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum Job ID: 890-2204-2 Project/Site: Pecos Fed 1Y SDG: 03A198701

Client Sample ID: PH04 Lab Sample ID: 890-2204-11

Date Collected: 04/18/22 11:05 Matrix: Solid Date Received: 04/19/22 13:33

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		04/29/22 09:06	04/29/22 19:01	
Toluene	< 0.00201	U	0.00201		mg/Kg		04/29/22 09:06	04/29/22 19:01	
Ethylbenzene	< 0.00201	U	0.00201		mg/Kg		04/29/22 09:06	04/29/22 19:01	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/29/22 09:06	04/29/22 19:01	
o-Xylene	< 0.00201	U	0.00201		mg/Kg		04/29/22 09:06	04/29/22 19:01	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/29/22 09:06	04/29/22 19:01	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	107		70 - 130				04/29/22 09:06	04/29/22 19:01	
1,4-Difluorobenzene (Surr)	94		70 - 130				04/29/22 09:06	04/29/22 19:01	
Method: Total BTEX - Total B	ΓEX Calcula	tion							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
-t-LDTEV	<0.00402	11						04/00/00 40:00	
			0.00402 GC)		mg/Kg			04/26/22 10:02	
					mg/Kg			04/26/22 10:02	
Total BTEX Method: 8015 NM - Diesel Rar Analyte Total TDH	nge Organic Result	s (DRO) (O	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Method: 8015 NM - Diesel Rar Analyte	nge Organic	s (DRO) (O	GC)	MDL		<u>D</u>	Prepared		Dil Fa
Method: 8015 NM - Diesel Rar Analyte Total TPH	nge Organic Result <50.0	S (DRO) (O Qualifier	RL 50.0	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra	nge Organic Result <50.0	S (DRO) (O Qualifier	RL 50.0		Unit	<u>D</u> D	Prepared Prepared	Analyzed	
Method: 8015 NM - Diesel Rar Analyte Fotal TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics	nge Organic Result <50.0	S (DRO) (O Qualifier U	RL 50.0 (GC)		Unit mg/Kg		<u> </u>	Analyzed 04/21/22 10:45	
Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	nge Organic Result <50.0 ange Organ Result	S (DRO) (O Qualifier U	RL 50.0		Unit mg/Kg		Prepared	Analyzed 04/21/22 10:45 Analyzed	
Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	nge Organic Result <50.0 ange Organ Result <50.0	S (DRO) (O Qualifier U ics (DRO) Qualifier U	(GC) RL 50.0 RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared 04/20/22 11:30 04/20/22 11:30	Analyzed 04/21/22 10:45 Analyzed 04/21/22 03:08	
Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	nge Organic Result <50.0 ange Organ Result <50.0 <50.0	S (DRO) (O Qualifier U ics (DRO) Qualifier U	GC) RL 50.0 (GC) RL 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/20/22 11:30 04/20/22 11:30	Analyzed 04/21/22 10:45 Analyzed 04/21/22 03:08 04/21/22 03:08	Dil Fa
Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10	nge Organic Result <50.0 ange Organ Result <50.0 <50.0 <50.0	S (DRO) (O Qualifier U ics (DRO) Qualifier U	GC) RL 50.0 (GC) RL 50.0 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/20/22 11:30 04/20/22 11:30 04/20/22 11:30	Analyzed 04/21/22 10:45 Analyzed 04/21/22 03:08 04/21/22 03:08 04/21/22 03:08	Dil Fa

Client Sample ID: PH05 Lab Sample ID: 890-2204-12 Date Collected: 04/18/22 11:25 **Matrix: Solid**

RL

4.99

MDL Unit

mg/Kg

D

Prepared

Analyzed

04/28/22 01:46

Dil Fac

Result Qualifier

<4.99 U

Date Received: 04/19/22 13:33

Sample Depth: 0.5

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/29/22 09:06	04/29/22 19:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/29/22 09:06	04/29/22 19:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/29/22 09:06	04/29/22 19:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/29/22 09:06	04/29/22 19:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/29/22 09:06	04/29/22 19:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/29/22 09:06	04/29/22 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				04/29/22 09:06	04/29/22 19:22	1

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Client: Ensolum Job ID: 890-2204-2 Project/Site: Pecos Fed 1Y SDG: 03A198701

Client Sample ID: PH05 Lab Sample ID: 890-2204-12 **Matrix: Solid**

Date Collected: 04/18/22 11:25 Date Received: 04/19/22 13:33

Sample Depth: 0.5

Surrogate	%Recovery Quality	fier Limits	Prepared Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	92	70 - 130	04/29/22 09:06 04/29/22 19:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398	mg/Kg	_		04/26/22 10:02	1

1		
Mothod: 901E NM Diocol	Range Organics (DRO) (GC)	١.
i welliou, ou la ivivi - Diesei	Range Organics (DRO) (GC)	,

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/21/22 10:45	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/20/22 11:30	04/21/22 03:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/20/22 11:30	04/21/22 03:28	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/20/22 11:30	04/21/22 03:28	1
Surrogato	% Pacayory	Qualifier	Limite			Branarad	Analyzad	Dil Ess

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	04/20/22 11:30	04/21/22 03:28	1
o-Terphenyl	102		70 - 130	04/20/22 11:30	04/21/22 03:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.60	5.00	mg/Kg			04/28/22 01:52	1

Client Sample ID: PH05 Lab Sample ID: 890-2204-13 **Matrix: Solid**

Date Collected: 04/18/22 11:30 Date Received: 04/19/22 13:33

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:06	04/29/22 19:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:06	04/29/22 19:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:06	04/29/22 19:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/29/22 09:06	04/29/22 19:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:06	04/29/22 19:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/29/22 09:06	04/29/22 19:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				04/29/22 09:06	04/29/22 19:42	1
1,4-Difluorobenzene (Surr)	98		70 - 130				04/29/22 09:06	04/29/22 19:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399		mg/Kg			04/26/22 10:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result Q	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			04/21/22 10:45	1

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Client: Ensolum Job ID: 890-2204-2 Project/Site: Pecos Fed 1Y SDG: 03A198701

Client Sample ID: PH05 Lab Sample ID: 890-2204-13

Date Collected: 04/18/22 11:30 Matrix: Solid Date Received: 04/19/22 13:33

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/20/22 11:30	04/21/22 03:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/20/22 11:30	04/21/22 03:49	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/20/22 11:30	04/21/22 03:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				04/20/22 11:30	04/21/22 03:49	1
o-Terphenyl	101		70 - 130				04/20/22 11:30	04/21/22 03:49	1
_			1.1.						
Method: 300.0 - Anions, Ion C	hromatogra	ιphy - Solι	ibie						
Method: 300.0 - Anions, Ion C Analyte	_	ιphy - Solι Qualifier	IDIE RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: PH06 Lab Sample ID: 890-2204-14 **Matrix: Solid**

Date Collected: 04/18/22 11:45

Date Received: 04/19/22 13:33

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/29/22 09:06	04/29/22 20:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/29/22 09:06	04/29/22 20:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/29/22 09:06	04/29/22 20:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/29/22 09:06	04/29/22 20:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/29/22 09:06	04/29/22 20:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/29/22 09:06	04/29/22 20:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				04/29/22 09:06	04/29/22 20:03	1
1,4-Difluorobenzene (Surr)	95		70 - 130				04/29/22 09:06	04/29/22 20:03	1
Method: Total BTEX - Total B	TEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/26/22 10:02	1
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (0	GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/21/22 10:45	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/20/22 11:30	04/21/22 04:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/20/22 11:30	04/21/22 04:09	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/20/22 11:30	04/21/22 04:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				04/20/22 11:30	04/21/22 04:09	1

Client: Ensolum Project/Site: Pecos Fed 1Y SDG: 03A198701

Client Sample ID: PH06 Lab Sample ID: 890-2204-14 Date Collected: 04/18/22 11:45

Date Received: 04/19/22 13:33 Sample Depth: 0.5

Matrix: Solid

Method: 300.0 - Anions, Ion Ch	romatogra	phy - Solub	ole						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.36		5.00		mg/Kg			04/28/22 02:05	1

Client Sample ID: PH06 Lab Sample ID: 890-2204-15

Date Collected: 04/18/22 11:50 Matrix: Solid

Date Received: 04/19/22 13:33

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Benzene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:06	04/29/22 20:23	
Toluene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:06	04/29/22 20:23	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:06	04/29/22 20:23	
m-Xylene & p-Xylene	< 0.00399	U	0.00399		mg/Kg		04/29/22 09:06	04/29/22 20:23	
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:06	04/29/22 20:23	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/29/22 09:06	04/29/22 20:23	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
4-Bromofluorobenzene (Surr)	120		70 - 130				04/29/22 09:06	04/29/22 20:23	
1,4-Difluorobenzene (Surr)	105		70 - 130				04/29/22 09:06	04/29/22 20:23	
Method: Total BTEX - Total B	TEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/26/22 10:02	-
Method: 8015 NM - Diesel Ra Analyte Total TPH	•	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 04/21/22 10:45	Dil F
					mg/rtg			04/21/22 10.40	
Method: 8015B NM - Diesel R	_		• •						
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil F
Gasoline Range Organics GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/20/22 11:30	04/21/22 04:30	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/20/22 11:30	04/21/22 04:30	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/20/22 11:30	04/21/22 04:30	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil
l-Chlorooctane	88		70 - 130				04/20/22 11:30	04/21/22 04:30	
p-Terphenyl	100		70 - 130				04/20/22 11:30	04/21/22 04:30	
Method: 300.0 - Anions, Ion (Chromatogra	ıphy - Solu	ıble						

Eurofins Carlsbad

04/28/22 06:31

4.99

mg/Kg

7.50

Chloride

Client Sample Results

Client: Ensolum Job ID: 890-2204-2 Project/Site: Pecos Fed 1Y SDG: 03A198701

Client Sample ID: PH01

Date Collected: 04/18/22 10:00 Date Received: 04/19/22 13:33

Sample Depth: 0.5

Lab Sample ID: 890-2205-1

04/20/22 15:27 04/21/22 03:21

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:22	04/29/22 16:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:22	04/29/22 16:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:22	04/29/22 16:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/29/22 09:22	04/29/22 16:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:22	04/29/22 16:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/29/22 09:22	04/29/22 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				04/29/22 09:22	04/29/22 16:42	1
1,4-Difluorobenzene (Surr)	83		70 - 130				04/29/22 09:22	04/29/22 16:42	1

ietilou. Total DTEX - Total D	I LA Calculation						
nalyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
otal BTEX	<0.00399 U	0.00399	mg/Kg			04/28/22 11:55	1

Method: 8015 NM - Diesel Rang	je Organics (DRO) (GC	;)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	985	49.9	mg/Kg			04/21/22 09:38	1

Method: 8015B NM - Diesel Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/20/22 15:27	04/21/22 03:21	1
Diesel Range Organics (Over C10-C28)	763		49.9		mg/Kg		04/20/22 15:27	04/21/22 03:21	1
Oll Range Organics (Over C28-C36)	222		49.9		mg/Kg		04/20/22 15:27	04/21/22 03:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				04/20/22 15:27	04/21/22 03:21	1

_									
Method: 300.0 - Anions, Ion C	hromatogra	phy - Solub	ole						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	361		4.98		mg/Kg			04/28/22 06:50	1

70 - 130

152 S1+

Client Sample ID: PH01 Lab Sample ID: 890-2205-2 Date Collected: 04/18/22 10:05 **Matrix: Solid**

Date Received: 04/19/22 13:33 Sample Depth: 1

o-Terphenyl

Method: 8021B - Volatile Organic Compounds (GC)												
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Benzene	<0.00199	U	0.00199		mg/Kg		04/29/22 09:22	04/29/22 17:02	1			
Toluene	< 0.00199	U	0.00199		mg/Kg		04/29/22 09:22	04/29/22 17:02	1			
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		04/29/22 09:22	04/29/22 17:02	1			
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/29/22 09:22	04/29/22 17:02	1			
o-Xylene	< 0.00199	U	0.00199		mg/Kg		04/29/22 09:22	04/29/22 17:02	1			
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/29/22 09:22	04/29/22 17:02	1			

Client: Ensolum Job ID: 890-2204-2 Project/Site: Pecos Fed 1Y

SDG: 03A198701

Client Sample ID: PH01 Date Collected: 04/18/22 10:05 Lab Sample ID: 890-2205-2

Date Received: 04/19/22 13:33

Matrix: Solid

Sample Depth: 1

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	04/29/22 09:22 04/29/22 17:02	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/29/22 09:22 04/29/22 17:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/k	(g		04/28/22 11:55	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac **Total TPH** 1760 50.0 mg/Kg 04/21/22 09:38

Method: 8015B NM - Diesel Range Organics (DRO) (GC) RL **MDL** Unit **Analyte** Result Qualifier

D Prepared Dil Fac Analyzed **Gasoline Range Organics** 50.0 04/20/22 15:27 04/21/22 03:41 51.7 mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** 1470 50.0 mg/Kg 04/20/22 15:27 04/21/22 03:41 C10-C28) **Oll Range Organics (Over** 50.0 04/20/22 15:27 04/21/22 03:41 241 mg/Kg C28-C36) Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac

S1+ 70 - 130 04/20/22 15:27 04/21/22 03:41 1-Chlorooctane 144 157 S1+ 04/20/22 15:27 04/21/22 03:41 o-Terphenyl 70 - 130

> Dil Fac Analyzed

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier

MDL RL Unit Prepared Chloride 288 5.00 04/28/22 06:56 mg/Kg **Client Sample ID: PH01**

Lab Sample ID: 890-2205-3 Matrix: Solid

Date Collected: 04/18/22 10:10 Date Received: 04/19/22 13:33

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac <0.00200 U 0.00200 04/29/22 09:22 04/29/22 17:23 Benzene mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 04/29/22 09:22 04/29/22 17:23 Ethylbenzene <0.00200 U 0.00200 mg/Kg 04/29/22 09:22 04/29/22 17:23 m-Xylene & p-Xylene 0.00399 04/29/22 09:22 04/29/22 17:23 <0.00399 U mg/Kg 04/29/22 09:22 04/29/22 17:23 o-Xylene <0.00200 U 0.00200 mg/Kg Xylenes, Total <0.00399 U 0.00399 mg/Kg 04/29/22 09:22 04/29/22 17:23 Dil Fac %Recovery Qualifier Limits Prepared Surrogate Analyzed 4-Bromofluorobenzene (Surr) 04/29/22 09:22 04/29/22 17:23 104 70 - 1301,4-Difluorobenzene (Surr) 95 70 - 130 04/29/22 09:22 04/29/22 17:23

Method: Total BTEX - Total BTEX Calculation MDL Unit **Analyte** Result Qualifier Dil Fac RL Prepared Analyzed Total BTEX <0.00399 U 0.00399 04/28/22 11:55 mg/Kg

SDG: 03A198701

Client Sample ID: PH01

Project/Site: Pecos Fed 1Y

Lab Sample ID: 890-2205-3

Date Collected: 04/18/22 10:10 Date Received: 04/19/22 13:33 Matrix: Solid

Sample Depth: 2

Client: Ensolum

Method: 8015 NM - Diesel Rang	ge Organic	s (DRO) (G	C)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1010		50.0		mg/Kg			04/21/22 09:38	1
_									

- Total ITTI	1010		00.0	mg/ng			04/21/22 00:00	
Method: 8015B NM - Diesel F Analyte		ics (DRO) Qualifier	(GC)	MDL Unit	D	Prepared	Analvzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0		50.0	mg/Kg	=	04/20/22 15:27		1
Diesel Range Organics (Over C10-C28)	786		50.0	mg/Kg		04/20/22 15:27	04/21/22 04:02	1
Oll Range Organics (Over C28-C36)	221		50.0	mg/Kg		04/20/22 15:27	04/21/22 04:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130			04/20/22 15:27	04/21/22 04:02	1
o-Terphenyl	145	S1+	70 - 130			04/20/22 15:27	04/21/22 04:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	258	4.95	mg/Kg			04/28/22 07:02	1		

Client Sample ID: PH01 Lab Sample ID: 890-2205-4

Date Collected: 04/18/22 15:45
Date Received: 04/19/22 13:33

Matrix: Solid

Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/29/22 09:22	04/29/22 17:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/29/22 09:22	04/29/22 17:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/29/22 09:22	04/29/22 17:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/29/22 09:22	04/29/22 17:43	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		04/29/22 09:22	04/29/22 17:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/29/22 09:22	04/29/22 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				04/29/22 09:22	04/29/22 17:43	1
1,4-Difluorobenzene (Surr)	102		70 - 130				04/29/22 09:22	04/29/22 17:43	1
		tion	70 - 130				0 11 23 22 00:22	0 11 20 22 11110	
Method: Total BTEX - Total I	BTEX Calcula	tion Qualifier	70 - 130 RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: Total BTEX - Total I Analyte	BTEX Calcula	Qualifier		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: Total BTEX - Total I Analyte Total BTEX	BTEX Calcula Result <0.00398	Qualifier U	RL 0.00398	MDL		<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total I Analyte Total BTEX Method: 8015 NM - Diesel R	BTEX Calcula Result <0.00398 ange Organic	Qualifier U	RL 0.00398			<u>D</u>		Analyzed	1
Method: Total BTEX - Total I Analyte Total BTEX Method: 8015 NM - Diesel R Analyte	BTEX Calcula Result <0.00398 ange Organic	Qualifier U	RL 0.00398		mg/Kg	_ =	Prepared	Analyzed 04/28/22 11:55	Dil Fac
Method: Total BTEX - Total I Analyte Total BTEX Method: 8015 NM - Diesel R Analyte Total TPH	BTEX Calcula Result <0.00398 ange Organic Result 3540	Qualifier U s (DRO) (C Qualifier	RL 0.00398		mg/Kg	_ =	Prepared	Analyzed 04/28/22 11:55	1
Method: Total BTEX - Total I Analyte Total BTEX Method: 8015 NM - Diesel R Analyte Total TPH Method: 8015B NM - Diesel	BTEX Calcula Result <0.00398 ange Organic Result 3540 Range Organi	Qualifier U s (DRO) (C Qualifier	RL 0.00398	MDL	mg/Kg	_ =	Prepared	Analyzed 04/28/22 11:55	Dil Fac
Method: Total BTEX - Total I Analyte Total BTEX Method: 8015 NM - Diesel Ranalyte Total TPH Method: 8015B NM - Diesel Analyte Gasoline Range Organics (GRO)-C6-C10	BTEX Calcula Result <0.00398 ange Organic Result 3540 Range Organi	Qualifier U S (DRO) (C Qualifier ics (DRO) Qualifier	RL 0.00398	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 04/28/22 11:55 Analyzed 04/21/22 09:38	1

Job ID: 890-2204-2 SDG: 03A198701

04/20/22 15:27 04/21/22 04:22

Client Sample ID: PH01 Lab Sample ID: 890-2205-4

Date Collected: 04/18/22 15:45 **Matrix: Solid**

Date Received: 04/19/22 13:33 Sample Depth: 3

Project/Site: Pecos Fed 1Y

Client: Ensolum

Method: 8015B NM - Diesel	Range Organ	ics (DRO)	(GC) (Contin	ued)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	554		50.0		mg/Kg		04/20/22 15:27	04/21/22 04:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				04/20/22 15:27	04/21/22 04:22	1

Method: 300.0 - Anions, Ion Cl	hromatogra	phy - Solu	ble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	779		4.99		mg/Kg			04/28/22 07:09	1

70 - 130

152 S1+

Client Sample ID: PH02 Lab Sample ID: 890-2205-5

Date Collected: 04/18/22 10:20 **Matrix: Solid**

Date Received: 04/19/22 13:33

Sample Depth: 0.5

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:22	04/29/22 18:04	1
Toluene	< 0.00200	U	0.00200		mg/Kg		04/29/22 09:22	04/29/22 18:04	1
Ethylbenzene	< 0.00200	U	0.00200		mg/Kg		04/29/22 09:22	04/29/22 18:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/29/22 09:22	04/29/22 18:04	1
o-Xylene	< 0.00200	U	0.00200		mg/Kg		04/29/22 09:22	04/29/22 18:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/29/22 09:22	04/29/22 18:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				04/29/22 09:22	04/29/22 18:04	1
1,4-Difluorobenzene (Surr)	97		70 - 130				04/29/22 09:22	04/29/22 18:04	1
Method: Total BTEX - Total B	TEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			04/28/22 11:55	1
Method: 8015 NM - Diesel Rai	•		SC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/21/22 09:38	1
Method: 8015B NM - Diesel R									
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/20/22 15:27	04/21/22 00:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/20/22 15:27	04/21/22 00:18	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/20/22 15:27	04/21/22 00:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				04/20/22 15:27	04/21/22 00:18	1
o-Terphenyl	156	S1+	70 - 130				04/20/22 15:27	04/21/22 00:18	1
Method: 300.0 - Anions, Ion C	_								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	186		4.95		mg/Kg			04/28/22 07:28	1

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Client: Ensolum Project/Site: Pecos Fed 1Y SDG: 03A198701

Client Sample ID: PH02 Lab Sample ID: 890-2205-6 Date Collected: 04/18/22 10:25

Matrix: Solid

Date Received: 04/19/22 13:33

Sam	ple	Dep	oth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:22	04/29/22 18:25	1
Toluene	< 0.00200	U	0.00200		mg/Kg		04/29/22 09:22	04/29/22 18:25	1
Ethylbenzene	< 0.00200	U	0.00200		mg/Kg		04/29/22 09:22	04/29/22 18:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/29/22 09:22	04/29/22 18:25	1
o-Xylene	< 0.00200	U	0.00200		mg/Kg		04/29/22 09:22	04/29/22 18:25	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/29/22 09:22	04/29/22 18:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				04/29/22 09:22	04/29/22 18:25	1
1,4-Difluorobenzene (Surr)	93		70 - 130				04/29/22 09:22	04/29/22 18:25	1
Method: Total BTEX - Total Analyte									
Analyte						_			
		Qualifier	RL 0.00401	MDL		D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401		0.00401	MDL	Unit mg/Kg	D	Prepared	Analyzed 04/28/22 11:55	Dil Fac
Total BTEX	<0.00401	U	0.00401	MDL		<u>D</u>	Prepared		Dil Fac
Total BTEX Method: 8015 NM - Diesel	<0.00401	U	0.00401	MDL MDL	mg/Kg	<u>D</u> 	Prepared Prepared		Dil Fac Dil Fac
Total BTEX Method: 8015 NM - Diesel	<0.00401	S (DRO) (C	0.00401 OC)		mg/Kg		· · ·	04/28/22 11:55	1
Total BTEX Method: 8015 NM - Diesel Analyte Total TPH	<0.00401 Range Organic Result <50.0	S (DRO) (C Qualifier	0.00401 GC) RL 50.0		mg/Kg Unit		· · ·	04/28/22 11:55 Analyzed	1
Total BTEX Method: 8015 NM - Diesel Analyte Total TPH Method: 8015B NM - Diese	<0.00401 Range Organic Result <50.0 I Range Organ	S (DRO) (O Qualifier U	0.00401 GC) RL 50.0 (GC)	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	04/28/22 11:55 Analyzed 04/21/22 09:38	Dil Fac
Total BTEX Method: 8015 NM - Diesel Analyte Total TPH	<0.00401 Range Organic Result <50.0 I Range Organ Result	S (DRO) (C Qualifier U	0.00401 GC) RL 50.0 (GC) RL		mg/Kg Unit mg/Kg		Prepared Prepared	04/28/22 11:55 Analyzed 04/21/22 09:38 Analyzed	1
Total BTEX Method: 8015 NM - Diesel Analyte Total TPH Method: 8015B NM - Diese	<0.00401 Range Organic Result <50.0 I Range Organ	S (DRO) (C Qualifier U	0.00401 GC) RL 50.0 (GC)	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	04/28/22 11:55 Analyzed 04/21/22 09:38	Dil Fac

C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	04/20/22 15:27	04/21/22 00:38	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130		04/20/22 15:27	04/21/22 00:38	1
o-Terphenyl	151	S1+	70 - 130		04/20/22 15:27	04/21/22 00:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	156	5.04	mg/Kg			04/28/22 07:34	1

Client Sample ID: PH02 Lab Sample ID: 890-2205-7 Date Collected: 04/18/22 10:30 **Matrix: Solid**

Date Received: 04/19/22 13:33

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/29/22 09:22	04/29/22 18:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/29/22 09:22	04/29/22 18:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/29/22 09:22	04/29/22 18:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/29/22 09:22	04/29/22 18:45	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		04/29/22 09:22	04/29/22 18:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/29/22 09:22	04/29/22 18:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				04/29/22 09:22	04/29/22 18:45	1

Client: Ensolum Job ID: 890-2204-2
Project/Site: Pecos Fed 1Y SDG: 03A198701

Client Sample ID: PH02 Lab Sample ID: 890-2205-7

Date Collected: 04/18/22 10:30

Date Received: 04/19/22 13:33

Matrix: Solid

Sample Depth: 2

Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93	70 - 130	04/29/22 09:22	04/29/22 18:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/28/22 11:55	1

Method: 8015 NM	- Diesel Range Or	rganics (DRO) (G	C)
INICUIOG. OU IU ITIN	- Diesei Runge Oi	gaines (bite) (e	- ,

	Analyte	Result	Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
ı	Total TPH	<49.9	U	49.9	n	ng/Kg			04/21/22 09:38	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/20/22 15:27	04/21/22 00:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/20/22 15:27	04/21/22 00:58	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/20/22 15:27	04/21/22 00:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qu	ualifier Li	imits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123	70	0 - 130	04/20/22 15:27	04/21/22 00:58	1
o-Terphenyl	153 S1	1+ 70	0 - 130	04/20/22 15:27	04/21/22 00:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116	4.96	mg/Kg			04/28/22 07:40	1

Client Sample ID: PH03

Date Collected: 04/18/22 10:45

Lab Sample ID: 890-2205-8

Matrix: Solid

Date Collected: 04/18/22 10:45 Date Received: 04/19/22 13:33

Sample Depth: 0.5

Mothod: 9021B	Volatile	Organic	Compounds	(CC)

method: our ib - volutile o	igaine compo	unus (CC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/29/22 09:22	04/29/22 19:06	1
Toluene	< 0.00199	U	0.00199		mg/Kg		04/29/22 09:22	04/29/22 19:06	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		04/29/22 09:22	04/29/22 19:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/29/22 09:22	04/29/22 19:06	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		04/29/22 09:22	04/29/22 19:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/29/22 09:22	04/29/22 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				04/29/22 09:22	04/29/22 19:06	1
1,4-Difluorobenzene (Surr)	97		70 - 130				04/29/22 09:22	04/29/22 19:06	1

Method: Total BTFX - Total BTFX	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/28/22 11:55	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result C	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 L	J	49.9	mg/Kg			04/21/22 09:38	1

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Matrix: Solid

Lab Sample ID: 890-2205-8

Client: Ensolum Project/Site: Pecos Fed 1Y SDG: 03A198701

Client Sample ID: PH03

Date Collected: 04/18/22 10:45 Date Received: 04/19/22 13:33

Sample Depth: 0.5

Analyte	-	ics (DRO) (G Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U -	49.9		mg/Kg		04/20/22 15:27	04/21/22 01:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/20/22 15:27	04/21/22 01:19	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/20/22 15:27	04/21/22 01:19	1

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
	1-Chlorooctane	124		70 - 130	04/20/22 15:27	04/21/22 01:19	1		
	o-Terphenyl	150	S1+	70 - 130	04/20/22 15:27	04/21/22 01:19	1		
Method: 300.0 - Anions, Ion Chromatography - Soluble									

Analyte Result Qualifier RL **MDL** Unit Dil Fac Prepared Analyzed Chloride 5.01 04/28/22 07:47 10.6 mg/Kg

Client Sample ID: PH03 Lab Sample ID: 890-2205-9 Date Collected: 04/18/22 10:50 **Matrix: Solid**

Date Received: 04/19/22 13:33

Sample Depth: 1

Method: 8021B - Volatil Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:22	04/29/22 19:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:22	04/29/22 19:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:22	04/29/22 19:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/29/22 09:22	04/29/22 19:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:22	04/29/22 19:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/29/22 09:22	04/29/22 19:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Quaimer	Limits	Prepared Analyzed	DII Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	04/29/22 09:22 04/29/22 19:26	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/29/22 09:22 04/29/22 19:26	1
_					

Method: Total BTEX - Total BTEX Calculation										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total BTEX	<0.00399	U	0.00399		mg/Kg			04/28/22 11:55	1

Method: 8015 NM - Diesel Ran	iC)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/21/22 09:38	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/20/22 15:27	04/21/22 01:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/20/22 15:27	04/21/22 01:39	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/20/22 15:27	04/21/22 01:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				04/20/22 15:27	04/21/22 01:39	1

70 - 130 04/20/22 15:27 04/21/22 01:39

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154 S1+

o-Terphenyl

Client: Ensolum Project/Site: Pecos Fed 1Y

Job ID: 890-2204-2

SDG: 03A198701

Client Sample ID: PH03

Lab Sample ID: 890-2205-9

Matrix: Solid

Date Collected: 04/18/22 10:50 Date Received: 04/19/22 13:33 Sample Depth: 1

_		
Method: 300.0 - Anions.	Ion Chromatogr	aphy - Soluble

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.41	4.97		mg/Kg			04/28/22 07:53	1

Client Sample ID: PH04 Lab Sample ID: 890-2205-10

Date Collected: 04/18/22 11:00 **Matrix: Solid**

Date Received: 04/19/22 13:33

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U *+	0.00199		mg/Kg		04/23/22 12:31	04/27/22 19:41	1	
Toluene	< 0.00199	U *+	0.00199		mg/Kg		04/23/22 12:31	04/27/22 19:41	1	
Ethylbenzene	< 0.00199	U *+	0.00199		mg/Kg		04/23/22 12:31	04/27/22 19:41	1	
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		04/23/22 12:31	04/27/22 19:41	1	
o-Xylene	< 0.00199	U *+	0.00199		mg/Kg		04/23/22 12:31	04/27/22 19:41	1	
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		04/23/22 12:31	04/27/22 19:41	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	99		70 - 130				04/23/22 12:31	04/27/22 19:41	1	
1,4-Difluorobenzene (Surr)	104		70 - 130				04/23/22 12:31	04/27/22 19:41	1	

Method: Total BTEX - Total BTEX Calculation										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total BTEX	<0.00398	U	0.00398		mg/Kg			04/28/22 11:55	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)										
	Analyte	Result	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<49.9	U	49.9	r	ng/Kg			04/21/22 09:38	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/20/22 15:27	04/21/22 02:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/20/22 15:27	04/21/22 02:00	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/20/22 15:27	04/21/22 02:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				04/20/22 15:27	04/21/22 02:00	1
o-Terphenyl	147	S1+	70 - 130				04/20/22 15:27	04/21/22 02:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	<4.97	U	4.97		mg/Kg			04/28/22 07:59	1

Surrogate Summary

Client: Ensolum Job ID: 890-2204-2 Project/Site: Pecos Fed 1Y SDG: 03A198701

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
0-13981-A-14-D MS	Matrix Spike	95	102	
0-13981-A-14-E MSD	Matrix Spike Duplicate	97	102	
0-14236-A-41-D MS	Matrix Spike	103	97	
0-14236-A-41-E MSD	Matrix Spike Duplicate	105	99	
0-2204-11	PH04	107	94	
0-2204-12	PH05	104	92	
0-2204-13	PH05	109	98	
0-2204-14	PH06	109	95	
0-2204-15	PH06	120	105	
0-2205-1	PH01	102	83	
-2205-2	PH01	106	97	
)-2205-3	PH01	104	95	
)-2205-4	PH01	106	102	
)-2205-5	PH02	104	97	
)-2205-6	PH02	106	93	
)-2205-7	PH02	103	93	
)-2205-8	PH03	107	97	
-2205-9	PH03	106	96	
)-2205-10	PH04	99	104	
S 880-24099/1-A	Lab Control Sample	100	103	
S 880-24483/1-A	Lab Control Sample	100	98	
SD 880-24099/2-A	Lab Control Sample Dup	95	104	
SD 880-24483/2-A	Lab Control Sample Dup	104	100	
880-24099/5-A	Method Blank	97	102	
880-24483/5-A	Method Blank	100	93	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Reco	very (Acceptance Limits)
		1CO1	ОТРН1	
Lab Sample ID	Client Sample ID	(70-130)	70-130)	
890-2203-A-1-C MS	Matrix Spike	122	32 S1+	
890-2203-A-1-D MSD	Matrix Spike Duplicate	122	33 S1+	
890-2204-11	PH04	85	98	
890-2204-12	PH05	93	102	
890-2204-13	PH05	88	101	
890-2204-14	PH06	88	93	
890-2204-15	PH06	88	100	
890-2205-1	PH01	136 S1+	52 S1+	
890-2205-2	PH01	144 S1+	57 S1+	
890-2205-3	PH01	134 S1+	45 S1+	
890-2205-4	PH01	143 S1+	52 S1+	
890-2205-5	PH02	125	56 S1+	
890-2205-6	PH02	122	51 S1+	
890-2205-7	PH02	123	53 S1+	

Surrogate Summary

Client: Ensolum Job ID: 890-2204-2 Project/Site: Pecos Fed 1Y SDG: 03A198701

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Rec	covery (Acceptance Limits)
		1CO1	ОТРН1	
Lab Sample ID	Client Sample ID	(70-130)	70-130)	
890-2205-8	PH03	124	150 S1+	
890-2205-9	PH03	124	154 S1+	
890-2205-10	PH04	121	147 S1+	
LCS 880-23857/2-A	Lab Control Sample	120	131 S1+	
LCSD 880-23857/3-A	Lab Control Sample Dup	145 S1+	161 S1+	
MB 880-23857/1-A	Method Blank	116	146 S1+	
Surrogate Legend				
1CO = 1-Chlorooctane	•			
OTPH = o-Terphenyl				

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Client: Ensolum

Job ID: 890-2204-2

SDG: 03A198701

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-24099/5-A

Lab Sample ID: LCS 880-24099/1-A

Matrix: Solid

Analysis Batch: 24304

Project/Site: Pecos Fed 1Y

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24099

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/22 12:31	04/27/22 14:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/22 12:31	04/27/22 14:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/22 12:31	04/27/22 14:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/23/22 12:31	04/27/22 14:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/22 12:31	04/27/22 14:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/23/22 12:31	04/27/22 14:18	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97	70 - 130	04/23/22 12:31	04/27/22 14:18	1
1,4-Difluorobenzene (Surr)	102	70 - 130	04/23/22 12:31	04/27/22 14:18	1

Client Sample ID: Lab Control Sample

Matrix: Solid **Prep Type: Total/NA Analysis Batch: 24304** Prep Batch: 24099

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1350	*+	mg/Kg		135	70 - 130	
Toluene	0.100	0.1526	*+	mg/Kg		153	70 - 130	
Ethylbenzene	0.100	0.1429	*+	mg/Kg		143	70 - 130	
m-Xylene & p-Xylene	0.200	0.2927	*+	mg/Kg		146	70 - 130	
o-Xylene	0.100	0.1348	*+	mg/Kg		135	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-24099/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 24304

Prep Type: Total/NA Prep Batch: 24099

	Spike	LCSD LCSD)			%Rec		RPD
Analyte	Added	Result Quali	fier Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1185	mg/Kg		119	70 - 130	13	35
Toluene	0.100	0.1276	mg/Kg		128	70 - 130	18	35
Ethylbenzene	0.100	0.1177	mg/Kg		118	70 - 130	19	35
m-Xylene & p-Xylene	0.200	0.2405	mg/Kg		120	70 - 130	20	35
o-Xylene	0.100	0.1119	mg/Kg		112	70 - 130	19	35

LCSD LCSD

Surrogate	%Recovery Qualifie	r Limits
4-Bromofluorobenzene (Surr)	95	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: 880-13981-A-14-D MS

Matrix: Solid

Analysis Batch: 24304

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 24099

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U *+	0.0996	0.08276		mg/Kg	_	83	70 - 130	
Toluene	<0.00200	U *+	0.0996	0.09680		mg/Kg		96	70 - 130	

QC Sample Results

Client: Ensolum Job ID: 890-2204-2 Project/Site: Pecos Fed 1Y SDG: 03A198701

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-13981-A-14-D MS

Analysis Batch: 24304

Matrix: Solid Prep Type: Total/NA Prep Batch: 24099 MS MS %Rec Sample Sample Spike

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00200	U *+	0.0996	0.1039		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	< 0.00399	U *+	0.199	0.2056		mg/Kg		102	70 - 130
o-Xylene	<0.00200	U *+	0.0996	0.1009		mg/Kg		99	70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-13981-A-14-E MSD

Matrix: Solid

Analysis Batch: 24304

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 24099

Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 0.0994 70 - 130 Benzene <0.00200 U *+ 0.08406 mg/Kg 85 2 35 Toluene <0.00200 U*+ 0.0994 0.1018 101 70 - 130 35 mg/Kg 0.0994 108 Ethylbenzene <0.00200 U *+ 0.1085 mg/Kg 70 - 130 4 35 m-Xylene & p-Xylene <0.00399 U*+ 0.199 0.2148 mg/Kg 107 70 - 130 35 o-Xylene <0.00200 U*+ 0.0994 0.1056 104 70 - 130 mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-24483/5-A

Matrix: Solid

Analysis Batch: 24523

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 24483

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:22	04/29/22 16:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:22	04/29/22 16:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:22	04/29/22 16:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/29/22 09:22	04/29/22 16:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:22	04/29/22 16:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/29/22 09:22	04/29/22 16:00	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/29/22 09:22 04/29/22 16:00	1
1,4-Difluorobenzene (Surr)	93		70 - 130	04/29/22 09:22 04/29/22 16:00	1

Lab Sample ID: LCS 880-24483/1-A

Matrix: Solid

Analysis Batch: 24523

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 24483

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08909		mg/Kg		89	70 - 130	
Toluene	0.100	0.08931		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.09118		mg/Kg		91	70 - 130	
m-Xylene & p-Xylene	0.200	0.1865		mg/Kg		93	70 - 130	

QC Sample Results

Client: Ensolum Job ID: 890-2204-2 SDG: 03A198701 Project/Site: Pecos Fed 1Y

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-24483/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Prep Type: Total/NA Prep Batch: 24483 **Analysis Batch: 24523**

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits o-Xylene 0 100 0.09369 mg/Kg 94 70 - 130

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 100 70 - 130 1,4-Difluorobenzene (Surr) 70 - 130 98

Lab Sample ID: LCSD 880-24483/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 24523 Prep Batch: 24483

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier D %Rec Limits **RPD** Limit **Analyte** Unit Benzene 0.100 0.1038 mg/Kg 104 70 - 130 15 35 Toluene 0.100 0.1032 mg/Kg 103 70 - 130 14 35 Ethylbenzene 0.100 0.1069 mg/Kg 107 70 - 130 16 35 m-Xylene & p-Xylene 0.200 0.2176 109 70 - 130 35 mg/Kg 15 o-Xylene 0.100 0.1085 mg/Kg 109 70 - 130 15 35

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 104 70 - 130 1,4-Difluorobenzene (Surr) 100 70 - 130

Lab Sample ID: 880-14236-A-41-D MS **Client Sample ID: Matrix Spike**

Matrix: Solid

Analysis Batch: 24523

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier %Rec Limits **Analyte** Unit D <0.00202 U F1 Benzene 0.0998 0.07164 mg/Kg 72 70 - 130 Toluene <0.00202 U F1 0.0998 0.07241 mg/Kg 73 70 - 130 Ethylbenzene <0.00202 UF1 0.0998 0.07150 mg/Kg 72 70 - 130 m-Xylene & p-Xylene <0.00403 UF1 0.200 0.1450 mg/Kg 73 70 - 130 o-Xylene <0.00202 UF1 0.0998 0.07327 mg/Kg 73 70 - 130

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 103 1,4-Difluorobenzene (Surr) 70 - 130 97

Lab Sample ID: 880-14236-A-41-E MSD **Client Sample ID: Matrix Spike Duplicate**

Matrix: Solid

Analysis Batch: 24523									Prep E	Batch: 2	24483
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U F1	0.100	0.06616	F1	mg/Kg		66	70 - 130	8	35
Toluene	<0.00202	U F1	0.100	0.06600	F1	mg/Kg		66	70 - 130	9	35
Ethylbenzene	<0.00202	U F1	0.100	0.06417	F1	mg/Kg		64	70 - 130	11	35
m-Xylene & p-Xylene	< 0.00403	U F1	0.200	0.1290	F1	mg/Kg		64	70 - 130	12	35
o-Xylene	<0.00202	U F1	0.100	0.06558	F1	mg/Kg		65	70 - 130	11	35

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Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 24483

Client: Ensolum Project/Site: Pecos Fed 1Y

Job ID: 890-2204-2

SDG: 03A198701

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-14236-A-41-E MSD

Matrix: Solid

Analysis Batch: 24523

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 24483

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-23857/1-A

Matrix: Solid

Analysis Batch: 23817

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23857

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/20/22 15:27	04/20/22 21:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/20/22 15:27	04/20/22 21:08	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/20/22 15:27	04/20/22 21:08	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	04/20/22 15:27	04/20/22 21:08	1
o-Terphenyl	146	S1+	70 - 130	04/20/22 15:27	04/20/22 21:08	1

Lab Sample ID: LCS 880-23857/2-A

Matrix: Solid

Analysis Batch: 23817

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 23857

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	848.2		mg/Kg		85	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1074		mg/Kg		107	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	131	S1+	70 - 130

Lab Sample ID: LCSD 880-23857/3-A

Matrix: Solid

Analysis Batch: 23817

Client Sample ID: Lab Control Sample Dup

Prep Batch: 23857

Alialysis Datoli. 20017							i ieh r	Jacon. A	23031
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	897.9		mg/Kg		90	70 - 130	6	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1231		mg/Kg		123	70 - 130	14	20
C10 C20\									

C10-C28)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	145	S1+	70 - 130
o-Terphenyl	161	S1+	70 - 130

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Prep Type: Total/NA

Client: Ensolum Job ID: 890-2204-2 Project/Site: Pecos Fed 1Y

SDG: 03A198701

Prep Type: Total/NA

Prep Batch: 23857

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-2203-A-1-C MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 23817									Prep I	Batch: 23857
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	1000	1012		mg/Kg		99	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	56.0		1000	1019		mg/Kg		96	70 - 130	

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	132	S1+	70 - 130

Lab Sample ID: 890-2203-A-1-D MSD **Client Sample ID: Matrix Spike Duplicate**

Matrix: Solid

Analysis Batch: 23817

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1147		mg/Kg		113	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	56.0		998	1026		mg/Kg		97	70 - 130	1	20

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 122 70 - 130 o-Terphenyl 133 S1+ 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23842/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 24345

	MB	MB						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil F
Chlorida		11					04/00/00 00:40	

Chloride <5.00 U 5 00 mg/Kg 04/28/22 06:12

Lab Sample ID: LCS 880-23842/2-A

Matrix: Solid Analysis Batch: 24345

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits

Chloride 250 243.6 mg/Kg 97 90 - 110

Lab Sample ID: LCSD 880-23842/3-A

Matrix: Solid

Analysis Batch: 24345 LCSD LCSD **RPD** Spike %Rec Added Analyte Result Qualifier Unit D %Rec Limits RPD Limit 250 Chloride 267.2 mg/Kg 107 90 - 110

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Prep Type: Soluble

Prep Type: Soluble

Fac

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

QC Sample Results

Client: Ensolum Job ID: 890-2204-2 Project/Site: Pecos Fed 1Y

SDG: 03A198701

Client Sample ID: PH04

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2204-15 MS **Client Sample ID: PH06 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 24345

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 250 Chloride 7.50 266.0 mg/Kg 104 90 - 110

Lab Sample ID: 890-2204-15 MSD Client Sample ID: PH06 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 24345

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 7.50 250 95 90 - 110 245.0 mg/Kg 8

Client Sample ID: PH04 Lab Sample ID: 890-2205-10 MS **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 24345

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec Chloride <4.97 U 249 264.9 107 mg/Kg

Lab Sample ID: 890-2205-10 MSD

Matrix: Solid

Analysis Batch: 24345

Spike MSD MSD %Rec **RPD** Sample Sample Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits RPD Limit Chloride <4.97 U 249 247.6 100 mg/Kg 90 - 110

Client: Ensolum Job ID: 890-2204-2 Project/Site: Pecos Fed 1Y SDG: 03A198701

GC VOA

Prep Batch: 24099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2205-10	PH04	Total/NA	Solid	5035	
MB 880-24099/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24099/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24099/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-13981-A-14-D MS	Matrix Spike	Total/NA	Solid	5035	
880-13981-A-14-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 24248

Lab Sample ID 890-2204-11	Client Sample ID PH04	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
890-2204-12	PH05	Total/NA	Solid	Total BTEX	
890-2204-13	PH05	Total/NA	Solid	Total BTEX	
890-2204-14	PH06	Total/NA	Solid	Total BTEX	
890-2204-15	PH06	Total/NA	Solid	Total BTEX	

Analysis Batch: 24304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2205-10	PH04	Total/NA	Solid	8021B	24099
MB 880-24099/5-A	Method Blank	Total/NA	Solid	8021B	24099
LCS 880-24099/1-A	Lab Control Sample	Total/NA	Solid	8021B	24099
LCSD 880-24099/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24099
880-13981-A-14-D MS	Matrix Spike	Total/NA	Solid	8021B	24099
880-13981-A-14-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	24099

Analysis Batch: 24426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2205-1	PH01	Total/NA	Solid	Total BTEX	
890-2205-2	PH01	Total/NA	Solid	Total BTEX	
890-2205-3	PH01	Total/NA	Solid	Total BTEX	
890-2205-4	PH01	Total/NA	Solid	Total BTEX	
890-2205-5	PH02	Total/NA	Solid	Total BTEX	
890-2205-6	PH02	Total/NA	Solid	Total BTEX	
890-2205-7	PH02	Total/NA	Solid	Total BTEX	
890-2205-8	PH03	Total/NA	Solid	Total BTEX	
890-2205-9	PH03	Total/NA	Solid	Total BTEX	
890-2205-10	PH04	Total/NA	Solid	Total BTEX	

Analysis Batch: 24450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2204-11	PH04	Total/NA	Solid	8021B	24473
890-2204-12	PH05	Total/NA	Solid	8021B	24473
890-2204-13	PH05	Total/NA	Solid	8021B	24473
890-2204-14	PH06	Total/NA	Solid	8021B	24473
890-2204-15	PH06	Total/NA	Solid	8021B	24473

Prep Batch: 24473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-2204-11	PH04	Total/NA	Solid	5035
890-2204-12	PH05	Total/NA	Solid	5035
890-2204-13	PH05	Total/NA	Solid	5035
890-2204-14	PH06	Total/NA	Solid	5035

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Client: Ensolum Job ID: 890-2204-2
Project/Site: Pecos Fed 1Y SDG: 03A198701

GC VOA (Continued)

Prep Batch: 24473 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2204-15	PH06	Total/NA	Solid	5035	

Prep Batch: 24483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2205-1	PH01	Total/NA	Solid	5035	
890-2205-2	PH01	Total/NA	Solid	5035	
890-2205-3	PH01	Total/NA	Solid	5035	
890-2205-4	PH01	Total/NA	Solid	5035	
890-2205-5	PH02	Total/NA	Solid	5035	
890-2205-6	PH02	Total/NA	Solid	5035	
890-2205-7	PH02	Total/NA	Solid	5035	
890-2205-8	PH03	Total/NA	Solid	5035	
890-2205-9	PH03	Total/NA	Solid	5035	
MB 880-24483/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24483/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24483/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14236-A-41-D MS	Matrix Spike	Total/NA	Solid	5035	
880-14236-A-41-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 24523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2205-1	PH01	Total/NA	Solid	8021B	24483
890-2205-2	PH01	Total/NA	Solid	8021B	24483
890-2205-3	PH01	Total/NA	Solid	8021B	24483
890-2205-4	PH01	Total/NA	Solid	8021B	24483
890-2205-5	PH02	Total/NA	Solid	8021B	24483
890-2205-6	PH02	Total/NA	Solid	8021B	24483
890-2205-7	PH02	Total/NA	Solid	8021B	24483
890-2205-8	PH03	Total/NA	Solid	8021B	24483
890-2205-9	PH03	Total/NA	Solid	8021B	24483
MB 880-24483/5-A	Method Blank	Total/NA	Solid	8021B	24483
LCS 880-24483/1-A	Lab Control Sample	Total/NA	Solid	8021B	24483
LCSD 880-24483/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24483
880-14236-A-41-D MS	Matrix Spike	Total/NA	Solid	8021B	24483
880-14236-A-41-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	24483

GC Semi VOA

Analysis Batch: 23813

Lab Sample ID 890-2204-11	Client Sample ID PH04	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 23828
890-2204-12	PH05	Total/NA	Solid	8015B NM	23828
890-2204-13	PH05	Total/NA	Solid	8015B NM	23828
890-2204-14	PH06	Total/NA	Solid	8015B NM	23828
890-2204-15	PH06	Total/NA	Solid	8015B NM	23828

Analysis Batch: 23817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2205-1	PH01	Total/NA	Solid	8015B NM	23857
890-2205-2	PH01	Total/NA	Solid	8015B NM	23857
890-2205-3	PH01	Total/NA	Solid	8015B NM	23857

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Job ID: 890-2204-2 Client: Ensolum SDG: 03A198701 Project/Site: Pecos Fed 1Y

GC Semi VOA (Continued)

Analysis Batch: 23817 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2205-4	PH01	Total/NA	Solid	8015B NM	23857
890-2205-5	PH02	Total/NA	Solid	8015B NM	23857
890-2205-6	PH02	Total/NA	Solid	8015B NM	23857
890-2205-7	PH02	Total/NA	Solid	8015B NM	23857
890-2205-8	PH03	Total/NA	Solid	8015B NM	23857
890-2205-9	PH03	Total/NA	Solid	8015B NM	23857
890-2205-10	PH04	Total/NA	Solid	8015B NM	23857
MB 880-23857/1-A	Method Blank	Total/NA	Solid	8015B NM	23857
LCS 880-23857/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23857
LCSD 880-23857/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23857
890-2203-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	23857
890-2203-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	23857

Prep Batch: 23828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2204-11	PH04	Total/NA	Solid	8015NM Prep	
890-2204-12	PH05	Total/NA	Solid	8015NM Prep	
890-2204-13	PH05	Total/NA	Solid	8015NM Prep	
890-2204-14	PH06	Total/NA	Solid	8015NM Prep	
890-2204-15	PH06	Total/NA	Solid	8015NM Prep	

Prep Batch: 23857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2205-1	PH01	Total/NA	Solid	8015NM Prep	
890-2205-2	PH01	Total/NA	Solid	8015NM Prep	
890-2205-3	PH01	Total/NA	Solid	8015NM Prep	
890-2205-4	PH01	Total/NA	Solid	8015NM Prep	
890-2205-5	PH02	Total/NA	Solid	8015NM Prep	
890-2205-6	PH02	Total/NA	Solid	8015NM Prep	
890-2205-7	PH02	Total/NA	Solid	8015NM Prep	
890-2205-8	PH03	Total/NA	Solid	8015NM Prep	
890-2205-9	PH03	Total/NA	Solid	8015NM Prep	
890-2205-10	PH04	Total/NA	Solid	8015NM Prep	
MB 880-23857/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23857/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23857/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2203-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2203-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 23902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2205-1	PH01	Total/NA	Solid	8015 NM	
890-2205-2	PH01	Total/NA	Solid	8015 NM	
890-2205-3	PH01	Total/NA	Solid	8015 NM	
890-2205-4	PH01	Total/NA	Solid	8015 NM	
890-2205-5	PH02	Total/NA	Solid	8015 NM	
890-2205-6	PH02	Total/NA	Solid	8015 NM	
890-2205-7	PH02	Total/NA	Solid	8015 NM	
890-2205-8	PH03	Total/NA	Solid	8015 NM	
890-2205-9	PH03	Total/NA	Solid	8015 NM	
890-2205-10	PH04	Total/NA	Solid	8015 NM	

Client: Ensolum Job ID: 890-2204-2 Project/Site: Pecos Fed 1Y SDG: 03A198701

GC Semi VOA

Analysis Batch: 23931

Lab Sample ID 890-2204-11	Client Sample ID PH04	Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch
890-2204-12	PH05	Total/NA	Solid	8015 NM	
890-2204-13	PH05	Total/NA	Solid	8015 NM	
890-2204-14	PH06	Total/NA	Solid	8015 NM	
890-2204-15	PH06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 23841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2204-11	PH04	Soluble	Solid	DI Leach	
890-2204-12	PH05	Soluble	Solid	DI Leach	
890-2204-13	PH05	Soluble	Solid	DI Leach	
890-2204-14	PH06	Soluble	Solid	DI Leach	

Leach Batch: 23842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2204-15	PH06	Soluble	Solid	DI Leach	
890-2205-1	PH01	Soluble	Solid	DI Leach	
890-2205-2	PH01	Soluble	Solid	DI Leach	
890-2205-3	PH01	Soluble	Solid	DI Leach	
890-2205-4	PH01	Soluble	Solid	DI Leach	
890-2205-5	PH02	Soluble	Solid	DI Leach	
890-2205-6	PH02	Soluble	Solid	DI Leach	
890-2205-7	PH02	Soluble	Solid	DI Leach	
890-2205-8	PH03	Soluble	Solid	DI Leach	
890-2205-9	PH03	Soluble	Solid	DI Leach	
890-2205-10	PH04	Soluble	Solid	DI Leach	
MB 880-23842/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23842/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23842/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2204-15 MS	PH06	Soluble	Solid	DI Leach	
890-2204-15 MSD	PH06	Soluble	Solid	DI Leach	
890-2205-10 MS	PH04	Soluble	Solid	DI Leach	
890-2205-10 MSD	PH04	Soluble	Solid	DI Leach	

Analysis Batch: 24343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2204-11	PH04	Soluble	Solid	300.0	23841
890-2204-12	PH05	Soluble	Solid	300.0	23841
890-2204-13	PH05	Soluble	Solid	300.0	23841
890-2204-14	PH06	Soluble	Solid	300.0	23841

Analysis Batch: 24345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2204-15	PH06	Soluble	Solid	300.0	23842
890-2205-1	PH01	Soluble	Solid	300.0	23842
890-2205-2	PH01	Soluble	Solid	300.0	23842
890-2205-3	PH01	Soluble	Solid	300.0	23842
890-2205-4	PH01	Soluble	Solid	300.0	23842
890-2205-5	PH02	Soluble	Solid	300.0	23842

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Client: Ensolum Job ID: 890-2204-2 Project/Site: Pecos Fed 1Y SDG: 03A198701

HPLC/IC (Continued)

Analysis Batch: 24345 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2205-6	PH02	Soluble	Solid	300.0	23842
890-2205-7	PH02	Soluble	Solid	300.0	23842
890-2205-8	PH03	Soluble	Solid	300.0	23842
890-2205-9	PH03	Soluble	Solid	300.0	23842
890-2205-10	PH04	Soluble	Solid	300.0	23842
MB 880-23842/1-A	Method Blank	Soluble	Solid	300.0	23842
LCS 880-23842/2-A	Lab Control Sample	Soluble	Solid	300.0	23842
LCSD 880-23842/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23842
890-2204-15 MS	PH06	Soluble	Solid	300.0	23842
890-2204-15 MSD	PH06	Soluble	Solid	300.0	23842
890-2205-10 MS	PH04	Soluble	Solid	300.0	23842
890-2205-10 MSD	PH04	Soluble	Solid	300.0	23842

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Client: Ensolum Job ID: 890-2204-2 Project/Site: Pecos Fed 1Y SDG: 03A198701

Client Sample ID: PH04 Lab Sample ID: 890-2204-11 Date Collected: 04/18/22 11:05

Matrix: Solid

Date Received: 04/19/22 13:33

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	24473	04/29/22 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24450	04/29/22 19:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24248	04/26/22 10:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23931	04/21/22 10:45	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	23828 23813	04/20/22 11:30 04/21/22 03:08		XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23841	04/20/22 12:40		XEN MID
Soluble	Analysis	300.0		1			24343	04/28/22 01:46	CH	XEN MID

Client Sample ID: PH05 Lab Sample ID: 890-2204-12 Date Collected: 04/18/22 11:25 **Matrix: Solid**

Date Received: 04/19/22 13:33

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	24473	04/29/22 09:06	MR	XEN MI
Total/NA	Analysis	8021B		1	5 mL	5 mL	24450	04/29/22 19:22	MR	XEN MI
Total/NA	Analysis	Total BTEX		1			24248	04/26/22 10:02	AJ	XEN MI
Total/NA	Analysis	8015 NM		1			23931	04/21/22 10:45	AJ	XEN MII
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23828	04/20/22 11:30	DM	XEN MII
Total/NA	Analysis	8015B NM		1			23813	04/21/22 03:28	AJ	XEN MI
Soluble	Leach	DI Leach			5 g	50 mL	23841	04/20/22 12:40	SC	XEN MII
Soluble	Analysis	300.0		1			24343	04/28/22 01:52	CH	XEN MI

Client Sample ID: PH05 Lab Sample ID: 890-2204-13 Date Collected: 04/18/22 11:30

Date Received: 04/19/22 13:33

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	24473	04/29/22 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24450	04/29/22 19:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24248	04/26/22 10:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23931	04/21/22 10:45	AJ	XEN MI
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23828	04/20/22 11:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23813	04/21/22 03:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	23841	04/20/22 12:40	SC	XEN MI
Soluble	Analysis	300.0		1			24343	04/28/22 01:58	CH	XEN MII

Client Sample ID: PH06 Lab Sample ID: 890-2204-14 Date Collected: 04/18/22 11:45 **Matrix: Solid**

Date Received: 04/19/22 13:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	24473	04/29/22 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24450	04/29/22 20:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24248	04/26/22 10:02	AJ	XEN MID

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Matrix: Solid

Client: Ensolum Project/Site: Pecos Fed 1Y SDG: 03A198701

Client Sample ID: PH06 Lab Sample ID: 890-2204-14 Date Collected: 04/18/22 11:45

Matrix: Solid

Date Received: 04/19/22 13:33

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			23931	04/21/22 10:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23828	04/20/22 11:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23813	04/21/22 04:09	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23841	04/20/22 12:40	SC	XEN MID
Soluble	Analysis	300.0		1			24343	04/28/22 02:05	CH	XEN MID

Client Sample ID: PH06 Lab Sample ID: 890-2204-15

Date Collected: 04/18/22 11:50 **Matrix: Solid** Date Received: 04/19/22 13:33

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	24473	04/29/22 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24450	04/29/22 20:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24248	04/26/22 10:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23931	04/21/22 10:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23828	04/20/22 11:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23813	04/21/22 04:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23842	04/20/22 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			24345	04/28/22 06:31	CH	XEN MID

Lab Sample ID: 890-2205-1 **Client Sample ID: PH01**

Date Collected: 04/18/22 10:00 **Matrix: Solid** Date Received: 04/19/22 13:33

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	24483	04/29/22 09:22	MR	XEN MID
Total/NA	Analysis	8021B		1			24523	04/29/22 16:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24426	04/28/22 11:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23902	04/21/22 09:38	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g	10 mL	23857 23817	04/20/22 15:27 04/21/22 03:21	DM AJ	XEN MID XEN MID
Soluble Soluble	Leach Analysis	DI Leach 300.0		1	5.02 g	50 mL	23842 24345	04/20/22 12:42 04/28/22 06:50		XEN MID XEN MID

Client Sample ID: PH01 Lab Sample ID: 890-2205-2 Date Collected: 04/18/22 10:05 Matrix: Solid

Date Received: 04/19/22 13:33

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	24483	04/29/22 09:22	MR	XEN MID
Total/NA	Analysis	8021B		1			24523	04/29/22 17:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24426	04/28/22 11:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23902	04/21/22 09:38	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	23857 23817	04/20/22 15:27 04/21/22 03:41	DM AJ	XEN MID XEN MID

SDG: 03A198701

Client Sample ID: PH01

Project/Site: Pecos Fed 1Y

Client: Ensolum

Lab Sample ID: 890-2205-2

Matrix: Solid

Date Collected: 04/18/22 10:05 Date Received: 04/19/22 13:33

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	23842	04/20/22 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			24345	04/28/22 06:56	CH	XEN MID

Lab Sample ID: 890-2205-3

Date Collected: 04/18/22 10:10 Date Received: 04/19/22 13:33

Client Sample ID: PH01

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	24483	04/29/22 09:22	MR	XEN MID
Total/NA	Analysis	8021B		1			24523	04/29/22 17:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24426	04/28/22 11:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23902	04/21/22 09:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23857	04/20/22 15:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23817	04/21/22 04:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23842	04/20/22 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			24345	04/28/22 07:02	CH	XEN MID

Lab Sample ID: 890-2205-4 **Client Sample ID: PH01**

Date Collected: 04/18/22 15:45

Matrix: Solid

Date Received: 04/19/22 13:33

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	24483	04/29/22 09:22	MR	XEN MID
Total/NA	Analysis	8021B		1			24523	04/29/22 17:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24426	04/28/22 11:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23902	04/21/22 09:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23857	04/20/22 15:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23817	04/21/22 04:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23842	04/20/22 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			24345	04/28/22 07:09	CH	XEN MID

Lab Sample ID: 890-2205-5 **Client Sample ID: PH02** Date Collected: 04/18/22 10:20 **Matrix: Solid**

Date Received: 04/19/22 13:33

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	24483	04/29/22 09:22	MR	XEN MID
Total/NA	Analysis	8021B		1			24523	04/29/22 18:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24426	04/28/22 11:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23902	04/21/22 09:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23857	04/20/22 15:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23817	04/21/22 00:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23842	04/20/22 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			24345	04/28/22 07:28	CH	XEN MID

SDG: 03A198701

Client Sample ID: PH02

Project/Site: Pecos Fed 1Y

Client: Ensolum

Soluble

Soluble

Lab Sample ID: 890-2205-6

Matrix: Solid

Date Collected: 04/18/22 10:25 Date Received: 04/19/22 13:33

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	24483	04/29/22 09:22	MR	XEN MID
Total/NA	Analysis	8021B		1			24523	04/29/22 18:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24426	04/28/22 11:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23902	04/21/22 09:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23857	04/20/22 15:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23817	04/21/22 00:38	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	23842	04/20/22 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			24345	04/28/22 07:34	CH	XEN MID

Client Sample ID: PH02 Lab Sample ID: 890-2205-7

Date Collected: 04/18/22 10:30 **Matrix: Solid** Date Received: 04/19/22 13:33

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA 5035 24483 04/29/22 09:22 MR XEN MID Prep 5.02 g 5 mL Total/NA 8021B 24523 04/29/22 18:45 MR XEN MID Analysis 1 Total/NA Total BTEX 04/28/22 11:55 AJ Analysis 1 24426 XEN MID Total/NA 8015 NM 23902 XEN MID Analysis 1 04/21/22 09:38 AJ Total/NA Prep 8015NM Prep 10.03 g 10 mL 23857 04/20/22 15:27 DM XEN MID Total/NA 8015B NM 23817 XEN MID Analysis 1 04/21/22 00:58 AJ

Client Sample ID: PH03 Lab Sample ID: 890-2205-8

5.04 g

23842

24345

50 mL

04/20/22 12:42 SC

04/28/22 07:40 CH

Date Collected: 04/18/22 10:45 Matrix: Solid Date Received: 04/19/22 13:33

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	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035	_		5.02 g	5 mL	24483	04/29/22 09:22	MR	XEN MID
Total/NA	Analysis	8021B		1			24523	04/29/22 19:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24426	04/28/22 11:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23902	04/21/22 09:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23857	04/20/22 15:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23817	04/21/22 01:19	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	23842	04/20/22 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			24345	04/28/22 07:47	CH	XEN MID

Client Sample ID: PH03 Lab Sample ID: 890-2205-9

Date Received: 04/19/22 13:33

Leach

Analysis

DI Leach

300.0

Duan Tama	Batch	Batch	D	Dil	Initial	Final	Batch	Prepared	Amalmat	Lab
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	24483	04/29/22 09:22		XEN MID
Total/NA	Analysis	8021B		1			24523	04/29/22 19:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24426	04/28/22 11:55	AJ	XEN MID

Eurofins Carlsbad

XEN MID

XEN MID

Date Collected: 04/18/22 10:50 Matrix: Solid

Released to Imaging: 1/23/2024 10:57:26 AM

Lab Chronicle

Client: Ensolum Job ID: 890-2204-2 Project/Site: Pecos Fed 1Y SDG: 03A198701

Client Sample ID: PH03 Lab Sample ID: 890-2205-9 Date Collected: 04/18/22 10:50

Matrix: Solid

Date Received: 04/19/22 13:33

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			23902	04/21/22 09:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23857	04/20/22 15:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23817	04/21/22 01:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	23842	04/20/22 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			24345	04/28/22 07:53	CH	XEN MID

Client Sample ID: PH04 Lab Sample ID: 890-2205-10

Date Collected: 04/18/22 11:00 **Matrix: Solid**

Date Received: 04/19/22 13:33

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	24099	04/23/22 12:31	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24304	04/27/22 19:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24426	04/28/22 11:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23902	04/21/22 09:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23857	04/20/22 15:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23817	04/21/22 02:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	23842	04/20/22 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			24345	04/28/22 07:59	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2204-2
Project/Site: Pecos Fed 1Y SDG: 03A198701

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analyte the agency does not	•	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
and againey dood not	oner certification.			
Analysis Method	Prep Method	Matrix	Analyte	
0 ,		Matrix Solid	Analyte Total TPH	

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Method Summary

Client: Ensolum

Project/Site: Pecos Fed 1Y

Job ID: 890-2204-2

SDG: 03A198701

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

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Sample Summary

Client: Ensolum

Project/Site: Pecos Fed 1Y

Job ID: 890-2204-2

SDG: 03A198701

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2204-11	PH04	Solid	04/18/22 11:05	04/19/22 13:33	1
890-2204-12	PH05	Solid	04/18/22 11:25	04/19/22 13:33	0.5
890-2204-13	PH05	Solid	04/18/22 11:30	04/19/22 13:33	1
890-2204-14	PH06	Solid	04/18/22 11:45	04/19/22 13:33	0.5
890-2204-15	PH06	Solid	04/18/22 11:50	04/19/22 13:33	1
890-2205-1	PH01	Solid	04/18/22 10:00	04/19/22 13:33	0.5
890-2205-2	PH01	Solid	04/18/22 10:05	04/19/22 13:33	1
890-2205-3	PH01	Solid	04/18/22 10:10	04/19/22 13:33	2
890-2205-4	PH01	Solid	04/18/22 15:45	04/19/22 13:33	3
890-2205-5	PH02	Solid	04/18/22 10:20	04/19/22 13:33	0.5
890-2205-6	PH02	Solid	04/18/22 10:25	04/19/22 13:33	1
890-2205-7	PH02	Solid	04/18/22 10:30	04/19/22 13:33	2
890-2205-8	PH03	Solid	04/18/22 10:45	04/19/22 13:33	0.5
890-2205-9	PH03	Solid	04/18/22 10:50	04/19/22 13:33	1
890-2205-10	PH04	Solid	04/18/22 11:00	04/19/22 13:33	0.5

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Company Name: Project Manager: eurofins. EMSOLUM, LLC. 20 B 1 Xenco Environment Testing Company Name: Bill to: (if different) Houston, TX (281) 240-4200, Dallas, TX (214) 962-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Chain of Custody Deven Energy (or poration I'm Rawy UST/PST PRP Brownfields RRC Work Order No: Work Order Comments

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Notice: Signature of this doc of service. Eurofins Xencow

Circle Method(s)

Total 200.7 / 60

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Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Chain of Custody

EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

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City, State ZIP:

Address:

Project Manager:

ompany Name:

Chain of Custody Record

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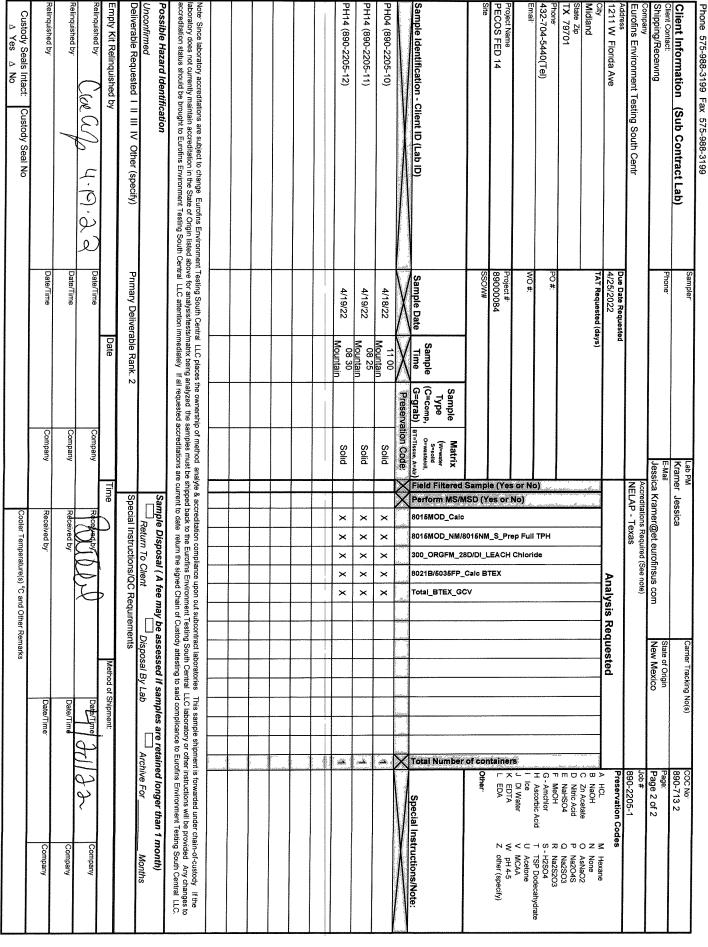
Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199 Environment Testing America

Sample Date Sample Corcomp, Corneas Cornpany	Client Information (Sub Contract Lab) Client Contact Shipping/Receiving Company Eurofins Environment Testing South Centr Address 1211 W Florida Ave City Midland State Zip TX, 79701 Phone 432-704-5440(Tel) Email Project Name: PECOS FED 14 Site	Sampler Phone Phone Due Date Requested 4/25/2022 TAT Requested (days): WO # Project # 89000084 SSOW#			Lab PM Krame E-Mail Jessica N		- Text	//DI_LEACH Chloride		Analysis		State of Origin New Mexico Requested	Camer I racking New Mexico uested		lo(s)	to(s)	
	Project Name: PECOS FED 14 Site Sample Identification - Client ID (Lab ID)	Date			<u>-</u>	Field Filtered Sample (Yes Perform MS/MSD (Yes or I	8015MOD_Calc 8015MOD_NM/8015NM_S_Pre	300_ORGFM_28D/DI_LEACH	8021B/5035FP_Calc BTEX	Total_BTEX_GCV							Total Number of container
Sep-2205-1) Sep-2205-2) Sep-2205-2) Sep-2205-3) Sep-2205-3) Sep-2205-3) Sep-2205-3) Sep-2205-4) Sep-2205-5) Sep-2205-5) Sep-2205-5) Sep-2205-5) Sep-2205-5) Sep-2205-5) Sep-2205-5) Sep-2205-6)		V A		OU L		THE SET OF		4-4	8			- Name	4				X
10 05 Solid X	PH01 (880-2205-1)		10 00 Iountain		Solid		- 5	-	×	×	1			2		2	
1010 1014	PH01 (890-2205-2)		10 05 Nountain		Solid			\dashv	×	×			_				
15.45	PH01 (890-2205-3)		10 10 Nountain		Solid			-+	×	×	-+						
10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 25 10 2	PH01 (890-2205-4)		15.45 Mountain		Solid			\rightarrow	×	×	\dashv		1				
S90-2205-6 S90-2205-7 Solid X X X X X X X X X X X X X X X X X X	PH02 (890-2205-5)		10 20 Nountain		Solid			-	×	×	\dashv						
190-2205-8) 4/18/22 Mountain 500-2205-9) 4/18/22 Mountain 500-2205-9) 4/18/22 Mountain 500-2205-9) 600-2205-9) 600-2205-9 600	PH02 (890-2205-6)		10 25		Solid	$\frac{1}{1}$	\dashv	-+	×	<u>×</u>	\dashv						
390-2205-8) 390-2205-9 390-2205-9	PH02 (890-2205-7)		10 30 Nountain		Solid		-+		×	×	+		1				
990-2205-9) 4/18/22 10 50 Solid X X X X X X X X X X X X X X X X X X X	PH03 (890-2205-8)		10 45		Solid		-		×	×	+		#				
sel aboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subco does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC attention immediately if all requested accreditations are current to date return the signed Chain of Current Interest of the Regular Company of the Regular To Client of the Regular Company of the Regular Company of the Regular Company of the Regular Company of Received by Out of the Company of Received by Out of the Regular Company of Received by Out of the Re	PH03 (890-2205-9)	4/18/22 _N	10 50 Nountain		Solid		×	×	×	×							
te Hazard Identification Sample Disposal (A fee may may med III III IV Other (specify) Primary Deliverable Rank 2 Special Instructions/QC Requirements	Note: Since laboratory accreditations are subject to change Eurofins Enviror laboratory does not currently maintain accreditation in the State of Origin lists accreditation status should be brought to Eurofins Environment	nent Testing South Central d above for analysis/tests/ma Central LLC attention imme	LLC places the atrix being anal adiately If all r	e ownership of r lyzed the samp equested accre	nethod analy les must be s ditations are	yte & accr shipped by current to	editatio ack to to date r	n comp te Euro	iance ι fins En e signe	pon out: /ironmen d Chain o	~ ~ ~	bcontra Testing Custod	bcontract labor Testing South (Custody attesti	bcontract laboratories Testing South Central L Custody attesting to sai	bcontract laboratories This sar. Testing South Central LLC labor Custody attesting to said compli	bcontract laboratories This sample ship Testing South Central LLC laboratory or Custody attesting to said complicance to	boontract laboratories This sample shipment is Testing South Central LLC laboratory or other in Custody attesting to said complicance to Eurofin
III IV Other (specify) Primary Deliverable Rank 2 Date Date/Time. Date/Time Date/Time Date/Time Company Company	Unconfirmed					\(\frac{\chi}{a}\)	Retu	m To	~ ~	ree III			Diennes	Disposal Bu La	Disposal By Lah	Disposal Rv Lah	ent Disposal By Lah
Inquished by Date/Time. Date/Time. Date/Time Company Date/Time Company Company	Deliverable Requested 1 II III IV Other (specify)	Primary Deliverabl				Spec	ial Ing	truction	ons/Q	Requ		remen	rements	rements	rements		
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Carlsbad NM 88220 1089 N Canal St.

Eurofins Carlsbad

	Chain of Custody Record	ly Record		environment Testing
575-988-3199				· Pilitari va
	Sampler	Lab PM	Carrier Tracking No(s)	COC No:
ub Contract Lab)		Kramer Jessica		890-713 2
	Phone:	E-Mail	State of Origin	Page:
		Jessica Kramer@et.eurofinsus com	New Mexico	Page 2 of 2
		Accreditations Required (See note)		Job #
g South Centr		NELAP - Texas		890-2205-1



Ver: 06/08/202

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2205-1

SDG Number: 03A1987014

Login Number: 2205 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2205-1

SDG Number: 03A1987014

List Source: Eurofins Midland
List Number: 2
List Creation: 04/20/22 10:37 AM

Creator: Teel, Brianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

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<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2204-1

Laboratory Sample Delivery Group: 03A198701

Client Project/Site: Pecos Fed 1Y

Revision: 1

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Joseph Hernandez

RAMER

Authorized for release by: 5/19/2022 2:00:02 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

results through EOL **Have a Question?**

····· Links ······

Review your project

Visit us at:

www.eurofinsus.com/Env Released to Imaging: 1/23/2024 10:57:26 AM

Results relate only to the items tested and the sample(s) as received by the laboratory.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Client: Ensolum
Project/Site: Pecos Fed 1Y
Laboratory Job ID: 890-2204-1
SDG: 03A198701

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Sample Summary	36
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Definitions/Glossary

Client: Ensolum Job ID: 890-2204-1 Project/Site: Pecos Fed 1Y

SDG: 03A198701

Qualifiers

GC VOA Qualifier

*+	LCS and/or LCSD is outside acceptance limits,	high biased.

F1

MS and/or MSD recovery exceeds control limits. F2 MS/MSD RPD exceeds control limits

Qualifier Description

S1-Surrogate recovery exceeds control limits, low biased. Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

F2 MS/MSD RPD exceeds control limits

S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Negative / Absent NEG POS Positive / Present

POI **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count **TNTC**

Case Narrative

Client: Ensolum

Project/Site: Pecos Fed 1Y

Job ID: 890-2204-1

SDG: 03A198701

Job ID: 890-2204-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2204-1

Receipt

The samples were received on 4/19/2022 1:33 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-24266 and analytical batch 880-24447 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-23828 and analytical batch 880-23813 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum Job ID: 890-2204-1 Project/Site: Pecos Fed 1Y SDG: 03A198701

Client Sample ID: PH07 Lab Sample ID: 890-2204-1 Date Collected: 04/18/22 12:55 **Matrix: Solid** Date Received: 04/19/22 13:33

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200		mg/Kg		04/23/22 13:41	04/25/22 18:56	1
Toluene	< 0.00200	U F2 F1	0.00200		mg/Kg		04/23/22 13:41	04/25/22 18:56	1
Ethylbenzene	<0.00200	U F2 F1	0.00200		mg/Kg		04/23/22 13:41	04/25/22 18:56	1
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.00401		mg/Kg		04/23/22 13:41	04/25/22 18:56	1
o-Xylene	< 0.00200	U F2 F1	0.00200		mg/Kg		04/23/22 13:41	04/25/22 18:56	1
Xylenes, Total	<0.00401	U F2 F1	0.00401		mg/Kg		04/23/22 13:41	04/25/22 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				04/23/22 13:41	04/25/22 18:56	1
1,4-Difluorobenzene (Surr)	96		70 - 130				04/23/22 13:41	04/25/22 18:56	1
Method: Total BTEX - Total B	TEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00401	U	0.00401		mg/Kg			04/26/22 10:02	1
			0.00101		5 5			0 1/20/22 10:02	-
Method: 8015 NM - Diesel Rai	nge Organic	s (DRO) (G			5 5			0 1/20/22 10102	•
Method: 8015 NM - Diesel Rai Analyte	_	s (DRO) (G Qualifier		MDL	Unit	D	Prepared	Analyzed	Dil Fac
	_	Qualifier	SC)	MDL		<u>D</u>	Prepared		
Analyte	Result <49.9	Qualifier U	RL 49.9	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	MDL MDL	Unit mg/Kg	<u>D</u> D	Prepared Prepared	Analyzed	1
Analyte Total TPH Method: 8015B NM - Diesel R	Result <49.9	Qualifier U ics (DRO) Qualifier	RL 49.9 (GC)		Unit mg/Kg	=	<u> </u>	Analyzed 04/21/22 10:45	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics	Result <49.9 ange Organ Result	Qualifier U ics (DRO) Qualifier U	RL 49.9 (GC)		Unit mg/Kg	=	Prepared	Analyzed 04/21/22 10:45 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 ange Organ Result <49.9	Qualifier U ics (DRO) Qualifier U	(GC) RL 49.9 RL 49.9		Unit mg/Kg Unit mg/Kg	=	Prepared 04/20/22 11:30	Analyzed 04/21/22 10:45 Analyzed 04/20/22 23:21 04/20/22 23:21	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U ics (DRO) Qualifier U U	(GC) RL 49.9 (GC) RL 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg	=	Prepared 04/20/22 11:30 04/20/22 11:30	Analyzed 04/21/22 10:45 Analyzed 04/20/22 23:21 04/20/22 23:21	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 ange Organ Result <49.9 <49.9 <49.9	Qualifier U ics (DRO) Qualifier U U	(GC) RL 49.9 (GC) RL 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg	=	Prepared 04/20/22 11:30 04/20/22 11:30 04/20/22 11:30	Analyzed 04/21/22 10:45 Analyzed 04/20/22 23:21 04/20/22 23:21	Dil Face
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U ics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits		Unit mg/Kg Unit mg/Kg mg/Kg	=	Prepared 04/20/22 11:30 04/20/22 11:30 04/20/22 11:30 Prepared	Analyzed 04/21/22 10:45 Analyzed 04/20/22 23:21 04/20/22 23:21 04/20/22 23:21 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U Qualifier U Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70-130 70-130		Unit mg/Kg Unit mg/Kg mg/Kg	=	Prepared 04/20/22 11:30 04/20/22 11:30 04/20/22 11:30 Prepared 04/20/22 11:30	Analyzed 04/21/22 10:45 Analyzed 04/20/22 23:21 04/20/22 23:21 Analyzed 04/20/22 23:21	Dil Face 1 1 1 1 Dil Face 1
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9 ange Organ Result <49.9 <49.9 <49.9 %Recovery 87 102 Chromatogra	Qualifier U Qualifier U Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70-130 70-130		Unit mg/Kg Unit mg/Kg mg/Kg mg/Kg	=	Prepared 04/20/22 11:30 04/20/22 11:30 04/20/22 11:30 Prepared 04/20/22 11:30	Analyzed 04/21/22 10:45 Analyzed 04/20/22 23:21 04/20/22 23:21 Analyzed 04/20/22 23:21	Dil Fac 1 Dil Fac 1 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: PH07 Lab Sample ID: 890-2204-2 Date Collected: 04/18/22 13:00 Matrix: Solid

Date Received: 04/19/22 13:33

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/22 13:41	04/25/22 19:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/22 13:41	04/25/22 19:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/22 13:41	04/25/22 19:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/23/22 13:41	04/25/22 19:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/22 13:41	04/25/22 19:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/23/22 13:41	04/25/22 19:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				04/23/22 13:41	04/25/22 19:23	1

Client Sample Results

Client: Ensolum Job ID: 890-2204-1 Project/Site: Pecos Fed 1Y SDG: 03A198701

Client Sample ID: PH07

Lab Sample ID: 890-2204-2 Date Collected: 04/18/22 13:00 **Matrix: Solid**

Date Received: 04/19/22 13:33 Sample Depth: 1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	96	70 - 130	04/23/22 13:41	04/25/22 19:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			04/26/22 10:02	1

l .		
Method: 8015 NM - Diesel	Dongo Organica	
i Metriou, ou la Mini - Dieser	Range Organics	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/21/22 10:45	1

		,	1 /						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/20/22 11:30	04/20/22 23:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/20/22 11:30	04/20/22 23:42	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/20/22 11:30	04/20/22 23:42	1
Surrogato	%Pocovory	Qualifier	l imite				Propared	Analyzod	Dil Eac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	04/20/22 11:30	04/20/22 23:42	1
o-Terphenyl	97		70 - 130	04/20/22 11:30	04/20/22 23:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualific		MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04 U	5.04	mg/Kg			04/28/22 00:23	1

Lab Sample ID: 890-2204-3 **Client Sample ID: PH08 Matrix: Solid**

Date Collected: 04/18/22 13:05 Date Received: 04/19/22 13:33

Sample Depth: 0.5

Mothod: 9021B	Volatile	Organic (Compounds	(CC)

Method: 8021B - Volatile O	rganic Compo	unas (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/23/22 13:41	04/25/22 19:50	1
Toluene	< 0.00199	U	0.00199		mg/Kg		04/23/22 13:41	04/25/22 19:50	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		04/23/22 13:41	04/25/22 19:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/23/22 13:41	04/25/22 19:50	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		04/23/22 13:41	04/25/22 19:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/23/22 13:41	04/25/22 19:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				04/23/22 13:41	04/25/22 19:50	1
1,4-Difluorobenzene (Surr)	91		70 - 130				04/23/22 13:41	04/25/22 19:50	1

lothod:	Total	DTEV	Total	DTEV	Calculation	n

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/26/22 10:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/21/22 10:45	1

Date Received: 04/19/22 13:33

Job ID: 890-2204-1

Client: Ensolum Project/Site: Pecos Fed 1Y SDG: 03A198701

Client Sample ID: PH08 Lab Sample ID: 890-2204-3 Date Collected: 04/18/22 13:05

Matrix: Solid

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/20/22 11:30	04/21/22 00:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/20/22 11:30	04/21/22 00:02	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/20/22 11:30	04/21/22 00:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				04/20/22 11:30	04/21/22 00:02	1
o-Terphenyl	97		70 - 130				04/20/22 11:30	04/21/22 00:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL **MDL** Unit Analyzed Dil Fac Prepared Chloride <5.00 U 5.00 04/28/22 00:29 mg/Kg

Client Sample ID: PH08 Lab Sample ID: 890-2204-4

Date Collected: 04/18/22 13:10 **Matrix: Solid**

Date Received: 04/19/22 13:33

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/23/22 13:41	04/25/22 20:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/23/22 13:41	04/25/22 20:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/23/22 13:41	04/25/22 20:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/23/22 13:41	04/25/22 20:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/23/22 13:41	04/25/22 20:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/23/22 13:41	04/25/22 20:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				04/23/22 13:41	04/25/22 20:17	1
1,4-Difluorobenzene (Surr)	91		70 - 130				04/23/22 13:41	04/25/22 20:17	1
Method: Total BTEX - Total B	ΓEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/26/22 10:02	1
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (0	GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/21/22 10:45	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/20/22 11:30	04/21/22 00:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/20/22 11:30	04/21/22 00:23	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/20/22 11:30	04/21/22 00:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Surrogate 1-Chlorooctane	%Recovery 87	Qualifier	<u>Limits</u> 70 - 130				Prepared 04/20/22 11:30	04/21/22 00:23	DII Fac

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Client Sample Results

Client: Ensolum Job ID: 890-2204-1
Project/Site: Pecos Fed 1Y SDG: 03A198701

Project/Site: Pecos Fed 1Y SDG: 03A198

Client Sample ID: PH08

Date Collected: 04/18/22 13:10

Lab Sample ID: 890-2204-4

Matrix: Solid

Date Collected: 04/18/22 13:10

Date Received: 04/19/22 13:33

Matrix: Solid

Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	10.0	5.01	mg/Kg			04/28/22 00:36	1	

Client Sample ID: PH09

Date Collected: 04/18/22 13:20

Lab Sample ID: 890-2204-5

Matrix: Solid

Date Collected: 04/18/22 13:20 Date Received: 04/19/22 13:33

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/26/22 15:48	04/29/22 02:22	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/26/22 15:48	04/29/22 02:22	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/26/22 15:48	04/29/22 02:22	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/26/22 15:48	04/29/22 02:22	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/26/22 15:48	04/29/22 02:22	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/26/22 15:48	04/29/22 02:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				04/26/22 15:48	04/29/22 02:22	1
1,4-Difluorobenzene (Surr)	98		70 - 130				04/26/22 15:48	04/29/22 02:22	1

Method: Total BTEX - Total BT	EX Calculat	.1011							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			04/26/22 10:02	1

Method: 8015 NM - Diesei Ran	ge Organics	S (DRO) (GC	ه)					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/21/22 10:45	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/20/22 11:30	04/21/22 00:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/20/22 11:30	04/21/22 00:43	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/20/22 11:30	04/21/22 00:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				04/20/22 11:30	04/21/22 00:43	1
o-Terphenyl	96		70 - 130				04/20/22 11:30	04/21/22 00:43	1

	Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Į	Chloride	<4.97	U	4.97		mg/Kg			04/28/22 00:42	1	

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Matrix: Solid

Lab Sample ID: 890-2204-6

Prepared

Analyzed

04/20/22 11:30 04/21/22 01:25

04/20/22 11:30 04/21/22 01:25

Lab Sample ID: 890-2204-7

Client Sample Results

Client: Ensolum Job ID: 890-2204-1 Project/Site: Pecos Fed 1Y SDG: 03A198701

Client Sample ID: PH09

Date Collected: 04/18/22 13:25 Date Received: 04/19/22 13:33

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/29/22 09:06	04/29/22 17:19	1
Toluene	< 0.00199	U	0.00199		mg/Kg		04/29/22 09:06	04/29/22 17:19	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		04/29/22 09:06	04/29/22 17:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/29/22 09:06	04/29/22 17:19	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		04/29/22 09:06	04/29/22 17:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/29/22 09:06	04/29/22 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				04/29/22 09:06	04/29/22 17:19	1
1,4-Difluorobenzene (Surr)	94		70 - 130				04/29/22 09:06	04/29/22 17:19	1
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed 04/26/22 10:02	Dil Fac
Method: Total BTEX - Total B Analyte Total BTEX Method: 8015 NM - Diesel Ra	<0.00398	Qualifier U	0.00398	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 04/26/22 10:02	Dil Fac
Analyte	Result <0.00398	Qualifier U	0.00398	MDL MDL	mg/Kg	<u>D</u>	Prepared Prepared		Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ra	Result <0.00398	Qualifier U s (DRO) (C	0.00398 GC)		mg/Kg	_ =		04/26/22 10:02	1
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH	Result <0.00398 nge Organic Result <49.9	Qualifier U S (DRO) (C Qualifier U	0.00398 GC) RL 49.9		mg/Kg Unit	_ =		04/26/22 10:02 Analyzed	1
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH Method: 8015B NM - Diesel R	Result <0.00398 nge Organic Result <49.9 ange Organic	Qualifier U S (DRO) (C Qualifier U	0.00398 GC) RL 49.9		mg/Kg Unit mg/Kg	_ =		04/26/22 10:02 Analyzed	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics	Result <0.00398 nge Organic Result <49.9 ange Organic	Qualifier U S (DRO) (C Qualifier U ics (DRO) Qualifier	0.00398 GC) RL 49.9 (GC)	MDL	mg/Kg Unit mg/Kg	<u></u> <u>D</u>	Prepared	04/26/22 10:02 Analyzed 04/21/22 10:45 Analyzed	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte	Result <0.00398 nge Organic Result <49.9 ange Organic Result	Qualifier U S (DRO) (C Qualifier U ics (DRO) Qualifier U	0.00398 GC) RL 49.9 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	<u></u> <u>D</u>	Prepared Prepared 04/20/22 11:30	04/26/22 10:02 Analyzed 04/21/22 10:45 Analyzed	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

%Recovery Qualifier

85

97

Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Chloride 5.05 mg/Kg 04/28/22 01:01 6.71

Limits

70 - 130

70 - 130

Client Sample ID: PH10 Date Collected: 04/18/22 13:35

Date Received: 04/19/22 13:33

Sample Depth: 0.5

Surrogate

o-Terphenyl

1-Chlorooctane

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:06	04/29/22 17:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:06	04/29/22 17:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:06	04/29/22 17:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/29/22 09:06	04/29/22 17:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:06	04/29/22 17:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/29/22 09:06	04/29/22 17:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				04/29/22 09:06	04/29/22 17:40	1

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Dil Fac

Matrix: Solid

Job ID: 890-2204-1

Client: Ensolum Project/Site: Pecos Fed 1Y SDG: 03A198701

Client Sample ID: PH10 Lab Sample ID: 890-2204-7

Date Collected: 04/18/22 13:35 **Matrix: Solid** Date Received: 04/19/22 13:33

Sample Depth: 0.5

Surrogate	%Recovery Qualifie	er Limits	Prepared Analyzed	d Dil Fac
1.4-Difluorobenzene (Surr)	98	70 - 130	04/29/22 09:06 04/29/22 17	<u>':40 </u>

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00400	U	0.00400	mg/Kg			04/26/22 10:02	1

Method: 8015 NM	- Diesel Range Or	rganics (DRO) (G	C)
INICUIOG. OU IU ITIN	- Diesei Runge Oi	gaines (bite) (e	- ,

Analyte		lifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			04/21/22 10:45	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/20/22 11:30	04/21/22 01:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/20/22 11:30	04/21/22 01:45	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/20/22 11:30	04/21/22 01:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	04/20/22 11:30	04/21/22 01:45	1
o-Terphenyl	97		70 - 130	04/20/22 11:30	04/21/22 01:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.2		4.99		mg/Kg			04/28/22 01:07	1

Lab Sample ID: 890-2204-8 **Client Sample ID: PH10** Matrix: Solid

Date Collected: 04/18/22 13:40 Date Received: 04/19/22 13:33

Sample Depth: 1

Method: 8	021R -	Volatile	Organic (Compounds	(GC)
i Wetilou. O	WZ 1D -	voiatile	Or uarric v	Julibuulius	1001

Metrica, 602 ID - Volatile C	igaine compo	unus (CC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:06	04/29/22 18:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:06	04/29/22 18:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:06	04/29/22 18:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/29/22 09:06	04/29/22 18:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:06	04/29/22 18:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/29/22 09:06	04/29/22 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				04/29/22 09:06	04/29/22 18:00	1
1,4-Difluorobenzene (Surr)	96		70 - 130				04/29/22 09:06	04/29/22 18:00	1

Mothod:	Total RTE	Y - Total	RTEY (Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399		mg/Kg			04/26/22 10:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/21/22 10:45	1

Job ID: 890-2204-1

Client: Ensolum Project/Site: Pecos Fed 1Y SDG: 03A198701

Client Sample ID: PH10 Lab Sample ID: 890-2204-8 **Matrix: Solid**

Date Collected: 04/18/22 13:40 Date Received: 04/19/22 13:33 Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/20/22 11:30	04/21/22 02:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/20/22 11:30	04/21/22 02:06	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/20/22 11:30	04/21/22 02:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				04/20/22 11:30	04/21/22 02:06	1
o-Terphenyl	96		70 - 130				04/20/22 11:30	04/21/22 02:06	1

Method: 300.0 - Anions, Ion Ch	romatogra	phy - Solu	ıble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112		5.00		mg/Kg			04/28/22 01:27	1

Lab Sample ID: 890-2204-9 **Client Sample ID: PH13**

Date Collected: 04/19/22 08:55 **Matrix: Solid**

Date Received: 04/19/22 13:33 Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/29/22 09:06	04/29/22 18:20	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/29/22 09:06	04/29/22 18:20	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/29/22 09:06	04/29/22 18:20	1
m-Xylene & p-Xylene	< 0.00396	U	0.00396		mg/Kg		04/29/22 09:06	04/29/22 18:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/29/22 09:06	04/29/22 18:20	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/29/22 09:06	04/29/22 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				04/29/22 09:06	04/29/22 18:20	1
1,4-Difluorobenzene (Surr)	94		70 - 130				04/29/22 09:06	04/29/22 18:20	1
: Mathod: Total BTEY - Total I	RTEY Calcula	tion							
Method: Total BTEX - Total I	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
		Qualifier	RL 0.00396	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 04/26/22 10:02	Dil Fac
Analyte Total BTEX	Result <0.00396	Qualifier U	0.00396 GC)		mg/Kg	<u>D</u>	<u> </u>		1
Analyte	Result <0.00396 ange Organic Result	Qualifier U s (DRO) (C	0.00396 GC)			<u>D</u>	Prepared Prepared		
Analyte Total BTEX Method: 8015 NM - Diesel Ra	Result <0.00396	Qualifier U s (DRO) (C	0.00396 GC)		mg/Kg	=	<u> </u>	04/26/22 10:02	1
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte	Result <0.00396 ange Organic Result <50.0	Qualifier U S (DRO) (C Qualifier U	0.00396 SC) RL 50.0		mg/Kg Unit	=	<u> </u>	04/26/22 10:02 Analyzed	1
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH	Result <0.00396 ange Organic Result <50.0 Range Organ	Qualifier U S (DRO) (C Qualifier U	0.00396 SC) RL 50.0		mg/Kg Unit mg/Kg	=	<u> </u>	04/26/22 10:02 Analyzed	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH Method: 8015B NM - Diesel	Result <0.00396 ange Organic Result <50.0 Range Organ	Qualifier U S (DRO) (C Qualifier U ics (DRO) Qualifier	0.00396 RL 50.0 (GC)	MDL	mg/Kg Unit mg/Kg	<u></u> <u>D</u>	Prepared	04/26/22 10:02 Analyzed 04/21/22 10:45	1
Analyte Total BTEX Method: 8015 NM - Diesel Ranalyte Total TPH Method: 8015B NM - Diesel Analyte Gasoline Range Organics	Result <0.00396 ange Organic Result <50.0 Range Organ Result	Qualifier U S (DRO) (C Qualifier U ics (DRO) Qualifier U	0.00396 RL 50.0 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	<u></u> <u>D</u>	Prepared Prepared	04/26/22 10:02 Analyzed 04/21/22 10:45 Analyzed	Dil Fac

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Analyzed

04/20/22 11:30 04/21/22 02:26

Prepared

Limits

70 - 130

70 - 130

%Recovery Qualifier

87

98

5/19/2022 (Rev. 1)

Dil Fac

Surrogate

o-Terphenyl

1-Chlorooctane

Matrix: Solid

Lab Sample ID: 890-2204-9

Job ID: 890-2204-1

Client: Ensolum Project/Site: Pecos Fed 1Y SDG: 03A198701

Client Sample ID: PH13

Date Collected: 04/19/22 08:55 Date Received: 04/19/22 13:33

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Cl	nromatogra	phy - Solub	ole						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	279		5.01		mg/Kg			04/28/22 01:33	1

Client Sample ID: PH13 Lab Sample ID: 890-2204-10 Matrix: Solid

Date Collected: 04/19/22 09:00 Date Received: 04/19/22 13:33

Sample Depth: 1

1-Chlorooctane

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:06	04/29/22 18:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:06	04/29/22 18:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:06	04/29/22 18:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/29/22 09:06	04/29/22 18:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:06	04/29/22 18:41	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/29/22 09:06	04/29/22 18:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				04/29/22 09:06	04/29/22 18:41	
1,4-Difluorobenzene (Surr)	94		70 - 130				04/29/22 09:06	04/29/22 18:41	1
Analyte Total BTEX	<0.00401	Qualifier U	RL 0.00401	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 04/26/22 10:02	Diria
Total BTEX Method: 8015 NM - Diesel Ran	<0.00401	U S (DRO) (G	0.00401 GC)		mg/Kg	=	<u> </u>	04/26/22 10:02	
Total BTEX Method: 8015 NM - Diesel Ran Analyte	<0.00401	s (DRO) (G	0.00401		mg/Kg Unit	<u>D</u>	Prepared		
Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ran	<0.00401 age Organic Result <50.0	S (DRO) (G Qualifier	0.00401 GC) RL 50.0		mg/Kg Unit mg/Kg	=	<u> </u>	04/26/22 10:02 Analyzed	Dil Fa
Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte	<0.00401 age Organic Result <50.0	S (DRO) (G Qualifier U ics (DRO) (Qualifier	0.00401 GC) RL 50.0 (GC)	MDL	mg/Kg Unit mg/Kg	<u></u> <u></u>	Prepared	04/26/22 10:02 Analyzed 04/21/22 10:45	Dil Fa
Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00401 age Organic Result <50.0 ange Organic Result Result	S (DRO) (G Qualifier U ics (DRO) (Qualifier U	0.00401 GC) RL 50.0 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	<u></u> <u></u>	Prepared Prepared	04/26/22 10:02 Analyzed 04/21/22 10:45 Analyzed	Dil Fa
Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00401 age Organic Result <50.0 ange Organic Result <50.0	S (DRO) (G Qualifier U ics (DRO) (Qualifier U	0.00401 RL 50.0 (GC) RL 50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg	<u></u> <u></u>	Prepared Prepared 04/20/22 11:30	Analyzed 04/21/22 10:45 Analyzed 04/21/22 02:47 04/21/22 02:47	Dil Fac

Method: 300.0 - Anions, ion Ch	iromatograp	ony - Solubi	le					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	313		5.00	mg/Kg			04/28/22 01:39	1

70 - 130

70 - 130

88

100

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04/20/22 11:30 04/21/22 02:47

04/20/22 11:30 04/21/22 02:47

Client: Ensolum Job ID: 890-2204-1 Project/Site: Pecos Fed 1Y SDG: 03A198701

Client Sample ID: PH14 Lab Sample ID: 890-2205-11 **Matrix: Solid**

Date Collected: 04/19/22 08:25 Date Received: 04/19/22 13:33

93.3

Sample Depth: 0.5

Method: 8021B - Volatile Orga	nic Compo	unds (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199		mg/Kg		04/23/22 12:31	04/27/22 20:01	1
Toluene	< 0.00199	U *+	0.00199		mg/Kg		04/23/22 12:31	04/27/22 20:01	1
Ethylbenzene	< 0.00199	U *+	0.00199		mg/Kg		04/23/22 12:31	04/27/22 20:01	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		04/23/22 12:31	04/27/22 20:01	1
o-Xylene	< 0.00199	U *+	0.00199		mg/Kg		04/23/22 12:31	04/27/22 20:01	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		04/23/22 12:31	04/27/22 20:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				04/23/22 12:31	04/27/22 20:01	1
1,4-Difluorobenzene (Surr)	104		70 - 130				04/23/22 12:31	04/27/22 20:01	1
- Method: Total BTEX - Total BT	EX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/28/22 11:55	1
Method: 8015 NM - Diesel Ran Analyte	Result	Qualifier	RL	MDL		_ D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/21/22 09:38	1
- Method: 8015B NM - Diesel Ra	ınge Organ	ics (DRO)	(GC)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/20/22 15:27	04/21/22 02:40	1
,									
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/20/22 15:27	04/21/22 02:40	1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 <50.0		50.0 50.0		mg/Kg mg/Kg			04/21/22 02:40 04/21/22 02:40	1
C10-C28)		U							1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0				04/20/22 15:27	04/21/22 02:40	1 Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 **Recovery 117	U	50.0				04/20/22 15:27 Prepared 04/20/22 15:27	04/21/22 02:40 Analyzed	1 Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 %Recovery 117 142	Qualifier S1+	50.0 Limits 70 - 130 70 - 130				04/20/22 15:27 Prepared 04/20/22 15:27	04/21/22 02:40 Analyzed 04/21/22 02:40	Dil Fac

Client Sample ID: PH14 Lab Sample ID: 890-2205-12 **Matrix: Solid**

4.99

mg/Kg

Date Collected: 04/19/22 08:30 Date Received: 04/19/22 13:33

Sample Depth: 1

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201		mg/Kg		04/23/22 12:31	04/27/22 20:21	1
Toluene	<0.00201	U *+	0.00201		mg/Kg		04/23/22 12:31	04/27/22 20:21	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		04/23/22 12:31	04/27/22 20:21	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402		mg/Kg		04/23/22 12:31	04/27/22 20:21	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		04/23/22 12:31	04/27/22 20:21	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		04/23/22 12:31	04/27/22 20:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				04/23/22 12:31	04/27/22 20:21	1

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04/28/22 08:18

Client Sample Results

Client: Ensolum Job ID: 890-2204-1

Project/Site: Pecos Fed 1Y SDG: 03A198701

Client Sample ID: PH14 Lab Sample ID: 890-2205-12

Date Collected: 04/19/22 08:30 **Matrix: Solid** Date Received: 04/19/22 13:33

Sample Depth: 1

Chloride

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130				04/23/22 12:31	04/27/22 20:21	1
Method: Total BTEX - Total B	TEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/28/22 11:55	1
Method: 8015 NM - Diesel Rai	nge Organic	s (DRO) (O	3C)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/21/22 09:38	1
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel R	_		•						
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		04/20/22 15:27	04/21/22 03:01	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/20/22 15:27	04/21/22 03:01	1
,	<49.9	U	49.9		mg/Kg		04/20/22 15:27	04/21/22 03:01	1
Oll Range Organics (Over C28-C36)									
Oll Range Organics (Over C28-C36) Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
,	%Recovery	Qualifier	Limits 70 - 130				Prepared 04/20/22 15:27	Analyzed 04/21/22 03:01	Dil Fac

5.03

mg/Kg

248

04/28/22 08:25

Surrogate Summary

Client: Ensolum Job ID: 890-2204-1 Project/Site: Pecos Fed 1Y SDG: 03A198701

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				nt Surrogate Recovery (Acceptance Li
		BFB1	DFBZ1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
80-14226-A-1-A MS	Matrix Spike	105	101	
80-14226-A-1-B MSD	Matrix Spike Duplicate	98	97	
80-14236-A-1-D MS	Matrix Spike	108	98	
30-14236-A-1-E MSD	Matrix Spike Duplicate	104	91	
0-2204-1	PH07	100	96	
0-2204-1 MS	PH07	20 S1-	20 S1-	
0-2204-1 MSD	PH07	91	87	
00-2204-2	PH07	95	96	
00-2204-3	PH08	88	91	
0-2204-4	PH08	83	91	
0-2204-5	PH09	103	98	
0-2204-6	PH09	110	94	
0-2204-7	PH10	107	98	
0-2204-8	PH10	109	96	
0-2204-9	PH13	107	94	
0-2204-10	PH13	103	94	
0-2205-11	PH14	101	104	
0-2205-12	PH14	103	105	
S 880-24102/1-A	Lab Control Sample	98	96	
S 880-24266/1-A	Lab Control Sample	99	98	
S 880-24473/1-A	Lab Control Sample	100	99	
SD 880-24102/2-A	Lab Control Sample Dup	92	97	
SD 880-24266/2-A	Lab Control Sample Dup	101	100	
CSD 880-24473/2-A	Lab Control Sample Dup	106	98	
B 880-24100/5-A	Method Blank	69 S1-	88	
3 880-24102/5-A	Method Blank	71	89	
3 880-24266/5-A	Method Blank	101	96	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Rec	overy (Acceptance Limits)
		1CO1	ОТРН1	
Lab Sample ID	Client Sample ID	(70-130)	70-130)	
890-2202-A-1-B MS	Matrix Spike	101	97	
890-2202-A-1-C MSD	Matrix Spike Duplicate	95	92	
890-2204-1	PH07	87	102	
890-2204-2	PH07	86	97	
890-2204-3	PH08	88	97	
890-2204-4	PH08	87	97	
890-2204-5	PH09	85	96	
890-2204-6	PH09	85	97	
890-2204-7	PH10	86	97	
890-2204-8	PH10	86	96	
890-2204-9	PH13	87	98	

Surrogate Summary

Client: Ensolum
Project/Site: Pecos Fed 1Y

Job ID: 890-2204-1
SDG: 03A198701

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

			Perc	cent Surrogate Rec
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2204-10	PH13	88	100	
890-2205-11	PH14	117	142 S1+	
890-2205-12	PH14	120	148 S1+	
Surrogate Legend				
1CO = 1-Chlorooctan	e			
OTPH = o-Terphenyl				

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

			Perce	ent Surrogate Recovery (Acceptance Limits)
		1CO2	OTPH2	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-23828/2-A	Lab Control Sample	99	117	
LCSD 880-23828/3-A	Lab Control Sample Dup	109	130	
MB 880-23828/1-A	Method Blank	85	102	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

Client: Ensolum Job ID: 890-2204-1 Project/Site: Pecos Fed 1Y SDG: 03A198701

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-24100/5-A

Matrix: Solid

Analysis Batch: 24112

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24100

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/22 12:32	04/25/22 02:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/22 12:32	04/25/22 02:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/22 12:32	04/25/22 02:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/23/22 12:32	04/25/22 02:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/22 12:32	04/25/22 02:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/23/22 12:32	04/25/22 02:37	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	04/23/22 12:32	04/25/22 02:37	1
1,4-Difluorobenzene (Surr)	88		70 - 130	04/23/22 12:32	04/25/22 02:37	1

Lab Sample ID: MB 880-24102/5-A

Matrix: Solid

Analysis Batch: 24112

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 24102

	MB	MB					•	
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/23/22 13:41	04/25/22 18:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/23/22 13:41	04/25/22 18:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/23/22 13:41	04/25/22 18:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/23/22 13:41	04/25/22 18:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/23/22 13:41	04/25/22 18:29	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/23/22 13:41	04/25/22 18:29	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	04/23/22 13:41	04/25/22 18:29	1
1,4-Difluorobenzene (Surr)	89		70 - 130	04/23/22 13:41	04/25/22 18:29	1

Lab Sample ID: LCS 880-24102/1-A

Matrix: Solid

Analysis Batch: 24112

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 24102

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1071		mg/Kg		107	70 - 130	
Toluene	0.100	0.1043		mg/Kg		104	70 - 130	
Ethylbenzene	0.100	0.1020		mg/Kg		102	70 - 130	
m-Xylene & p-Xylene	0.200	0.2047		mg/Kg		102	70 - 130	
o-Xylene	0.100	0.1063		mg/Kg		106	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	r Limits
4-Bromofluorobenzene (Surr)	98	70 - 130
1.4-Difluorobenzene (Surr)	96	70 - 130

Lab Sample ID: LCSD 880-24102/2-A

Matrix: Solid							Prep Ty	pe: Tot	al/NA
Analysis Batch: 24112							Prep E	Batch: 2	24102
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09340		mg/Kg		93	70 - 130	14	35

Client: Ensolum Job ID: 890-2204-1 SDG: 03A198701 Project/Site: Pecos Fed 1Y

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-24102/2-A

Matrix: Solid

Analysis Batch: 24112

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 24102

LCSD LCSD %Rec **RPD** Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Toluene 0.100 0.08626 mg/Kg 86 70 - 130 19 35 Ethylbenzene 0.100 0.08799 mg/Kg 88 70 - 13015 35 0.200 0.1726 86 70 - 130 35 m-Xylene & p-Xylene mg/Kg 17 o-Xylene

0.100 90 35 0.09023 mg/Kg 70 - 130 16

LCSD LCSD

Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene (Surr)	92	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: 890-2204-1 MS **Client Sample ID: PH07**

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 24112** Prep Batch: 24102

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier D %Rec Limits Unit Benzene <0.00200 U F2 F1 0.0998 0.02558 F1 26 70 - 130 mg/Kg Toluene <0.00200 U F2 F1 0.0998 0.02244 F1 mg/Kg 22 70 - 130 Ethylbenzene <0.00200 U F2 F1 0.0998 0.01998 F1 mg/Kg 20 70 - 130 m-Xylene & p-Xylene <0.00401 U F2 F1 0.200 0.04040 F1 20 mg/Kg 70 - 130o-Xylene <0.00200 U F2 F1 0.0998 0.01752 F1 mg/Kg 18 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	20	S1-	70 - 130
1,4-Difluorobenzene (Surr)	20	S1-	70 - 130

Lab Sample ID: 890-2204-1 MSD **Client Sample ID: PH07 Matrix: Solid**

Prep Type: Total/NA **Analysis Batch: 24112** Prep Batch: 24102 Spike MSD MSD %Rec **RPD** Sample Sample

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit Benzene <0.00200 U F2 F1 0.0996 0.03775 F2 F1 mg/Kg 38 70 - 130 38 35 Toluene <0.00200 U F2 F1 0.0996 0.03415 F2 F1 mg/Kg 34 70 - 130 41 35 Ethylbenzene <0.00200 U F2 F1 0.0996 0.03468 F2 F1 mg/Kg 35 70 - 130 54 35 0.199 38 70 - 130 35 m-Xylene & p-Xylene <0.00401 U F2 F1 0.07556 F2 F1 mg/Kg 61 70 - 130 o-Xylene <0.00200 U F2 F1 0.0996 0.04149 F2 F1 42 35 mq/Kq

MSD MSD

MD MD

Surrogate	%Recovery Qualified	r Limits
4-Bromofluorobenzene (Surr)	91	70 - 130
1,4-Difluorobenzene (Surr)	87	70 - 130

Lab Sample ID: MB 880-24266/5-A

Matrix: Solid

Analysis Batch: 24447

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 24266

	IVID	IAID						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/26/22 15:48	04/28/22 22:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/26/22 15:48	04/28/22 22:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/26/22 15:48	04/28/22 22:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/26/22 15:48	04/28/22 22:50	1

Client: Ensolum Job ID: 890-2204-1 Project/Site: Pecos Fed 1Y

SDG: 03A198701

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

MB MB

Lab Sample ID: MB 880-24266/5-A **Matrix: Solid**

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 24266

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/26/22 15:48	04/28/22 22:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/26/22 15:48	04/28/22 22:50	1
	МВ	МВ							

%Recovery Qualifier Limits Prepared Analyzed Dil Fac 101 70 - 130 96 70 - 130 04/26/22 15:48 04/28/22 22:50

Lab Sample ID: LCS 880-24266/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Surrogate

Analysis Batch: 24447

Analysis Batch: 24447 Prep Batch: 24266

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08488		mg/Kg		85	70 - 130	
Toluene	0.100	0.08669		mg/Kg		87	70 - 130	
Ethylbenzene	0.100	0.08850		mg/Kg		88	70 - 130	
m-Xylene & p-Xylene	0.200	0.1841		mg/Kg		92	70 - 130	
o-Xylene	0.100	0.1000		mg/Kg		100	70 - 130	

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 99 70 - 130 1,4-Difluorobenzene (Surr) 98 70 - 130

Lab Sample ID: LCSD 880-24266/2-A

Matrix: Solid

Analysis Batch: 24447

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 24266

	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07528	mg/Kg		75	70 - 130	12	35
Toluene	0.100	0.07426	mg/Kg		74	70 - 130	15	35
Ethylbenzene	0.100	0.07590	mg/Kg		76	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.1578	mg/Kg		79	70 - 130	15	35
o-Xylene	0.100	0.08448	mg/Kg		84	70 - 130	17	35

LCSD LCSD Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 101 1,4-Difluorobenzene (Surr) 100 70 - 130

Lab Sample ID: 880-14226-A-1-A MS **Client Sample ID: Matrix Spike**

Matrix: Solid

Analysis Batch: 24447

7a., 0.0 = a.o = 1 1 1										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U F1	0.0998	0.08489		mg/Kg		85	70 - 130	
Toluene	<0.00199	U F1	0.0998	0.08443		mg/Kg		84	70 - 130	
Ethylbenzene	<0.00199	U F1	0.0998	0.08669		mg/Kg		86	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1803		mg/Kg		90	70 - 130	
o-Xylene	<0.00199	U F1	0.0998	0.09714		mg/Kg		97	70 - 130	

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Prep Type: Total/NA Prep Batch: 24266

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Client: Ensolum Job ID: 890-2204-1 SDG: 03A198701 Project/Site: Pecos Fed 1Y

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-14226-A-1-A MS

Matrix: Solid

Analysis Batch: 24447

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 24266

MS MS %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 105 70 - 130 1,4-Difluorobenzene (Surr) 101 70 - 130

Lab Sample ID: 880-14226-A-1-B MSD

Matrix: Solid

Analysis Batch: 24447

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 24266

MSD MSD %Rec **RPD** Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Benzene <0.00199 UF1 0.0990 <0.00198 U F1 mg/Kg 0 70 - 130 NC 35 Toluene <0.00199 UF1 0.0990 <0.00198 UF1 mg/Kg 0 70 - 130 NC 35 Ethylbenzene <0.00199 U F1 0.0990 <0.00198 UF1 mg/Kg 0 70 - 130 NC 35 m-Xylene & p-Xylene <0.00398 UF1 0.198 <0.00396 UF1 mg/Kg 0 70 - 130 NC 35 o-Xylene <0.00199 UF1 0.0990 <0.00198 UF1 mg/Kg 70 - 130 35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	98	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: MB 880-24473/5-A

Matrix: Solid

Analysis Batch: 24450

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 24473

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:06	04/29/22 11:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:06	04/29/22 11:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:06	04/29/22 11:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/29/22 09:06	04/29/22 11:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/29/22 09:06	04/29/22 11:56	1
Xvlenes, Total	< 0.00400	U	0.00400		ma/Ka		04/29/22 09:06	04/29/22 11:56	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	04/29/22 09:06 04/29/22 11:56	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/29/22 09:06 04/29/22 11:56	1

Lab Sample ID: LCS 880-24473/1-A

Analysis Batch: 24450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24473

	Shike	LUS	LUS				/onec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08917		mg/Kg		89	70 - 130	
Toluene	0.100	0.08875		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.09220		mg/Kg		92	70 - 130	
m-Xylene & p-Xylene	0.200	0.1923		mg/Kg		96	70 - 130	
o-Xylene	0.100	0.1035		mg/Kg		103	70 - 130	

ICC ICC

Snika

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 100 70 - 130

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Matrix: Solid

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Client: Ensolum Job ID: 890-2204-1 Project/Site: Pecos Fed 1Y SDG: 03A198701

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-24473/1-A

Matrix: Solid

Analysis Batch: 24450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24473

LCS LCS

Limits Surrogate %Recovery Qualifier 1,4-Difluorobenzene (Surr) 70 - 130 99

Lab Sample ID: LCSD 880-24473/2-A **Client Sample ID: Lab Control Sample Dup**

Analysis Batch: 24450

Matrix: Solid Prep Type: Total/NA

Prep Batch: 24473

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09182		mg/Kg		92	70 - 130	3	35
Toluene	0.100	0.09758		mg/Kg		98	70 - 130	9	35
Ethylbenzene	0.100	0.1017		mg/Kg		102	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2142		mg/Kg		107	70 - 130	11	35
o-Xylene	0.100	0.1167		mg/Kg		117	70 - 130	12	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-14236-A-1-D MS **Client Sample ID: Matrix Spike**

Matrix: Solid

Analysis Batch: 24450

Prep Type: Total/NA

Prep Batch: 24473

•	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0998	0.07828		mg/Kg		78	70 - 130	
Toluene	<0.00200	U	0.0998	0.08213		mg/Kg		82	70 - 130	
Ethylbenzene	<0.00200	U	0.0998	0.08533		mg/Kg		84	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1784		mg/Kg		89	70 - 130	
o-Xylene	<0.00200	U	0.0998	0.09675		mg/Kg		97	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-14236-A-1-E MSD

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Matrix: Solid

Analysis Batch: 24450

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Prep Batch: 24473

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0996	0.07066		mg/Kg		71	70 - 130	10	35
Toluene	<0.00200	U	0.0996	0.07891		mg/Kg		79	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.0996	0.08422		mg/Kg		83	70 - 130	1	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1778		mg/Kg		89	70 - 130	0	35
o-Xylene	<0.00200	U	0.0996	0.09628		mg/Kg		97	70 - 130	0	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Client: Ensolum Job ID: 890-2204-1 Project/Site: Pecos Fed 1Y

SDG: 03A198701

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

102

Lab Sample ID: MB 880-23828/1-A

Matrix: Solid

Analysis Batch: 23813

Client Sample ID: Method Blank

04/20/22 11:30 04/20/22 19:51

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA Prep Batch: 23828

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23828

	MR	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/20/22 11:30	04/20/22 19:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/20/22 11:30	04/20/22 19:51	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/20/22 11:30	04/20/22 19:51	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				04/20/22 11:30	04/20/22 19:51	1

Lab Sample ID: LCS 880-23828/2-A

o-Terphenyl

Analysis Batch: 23813

Matrix: Solid

LCS LCS Spike %Rec Added Result Qualifier Unit Limits Analyte D %Rec 1000 1052 105 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 909.6 mg/Kg 91 70 - 130 C10-C28)

70 - 130

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 99 70 - 130 70 - 130 o-Terphenyl 117

Lab Sample ID: LCSD 880-23828/3-A

Matrix: Solid

Analysis Batch: 23813							Prep E	atch: 2	3828
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1088		mg/Kg		109	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	946.2		mg/Kg		95	70 - 130	4	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	130		70 - 130

Lab Sample ID: 890-2202-A-1-B MS

Matrix: Solid

Analysis Batch: 23813									Prep E	atch: 23828
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	148	F2	1000	1329		mg/Kg		118	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	3210		1000	4394		mg/Kg		119	70 - 130	
C10-C28)										

Client: Ensolum Job ID: 890-2204-1 Project/Site: Pecos Fed 1Y SDG: 03A198701

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

MS MS

Client Sample ID: Matrix Spike Lab Sample ID: 890-2202-A-1-B MS

Matrix: Solid

Analysis Batch: 23813

Prep Type: Total/NA

Prep Batch: 23828

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 101 70 - 130 o-Terphenyl 97 70 - 130

Lab Sample ID: 890-2202-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 23813

Prep Type: Total/NA

Prep Batch: 23828

%Rec MSD MSD **RPD** Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 148 F2 998 930.3 F2 mg/Kg 78 70 - 130 35 20 (GRO)-C6-C10 Diesel Range Organics (Over 3210 998 4174 mg/Kg 97 70 - 130 5 20 C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	92		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23841/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 24343

Prep Type: Soluble

MB MB

Analyte	Result Qualifier	RL	MDL Unit	_ D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			04/27/22 22:54	1

Lab Sample ID: LCS 880-23841/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 24343

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 	250	233.9		ma/Ka		94	90 - 110	

Lab Sample ID: LCSD 880-23841/3-A **Client Sample ID: Lab Control Sample Dup Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 24343

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	 250	248.6		mg/Kg		99	90 - 110	6	20

Lab Sample ID: 890-2204-5 MS **Client Sample ID: PH09**

Matrix: Solid

Analysis Batch: 24343

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	<4.97	U	249	241.6		mg/Kg		96	90 - 110	

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Prep Type: Soluble

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Client: Ensolum

Project/Site: Pecos Fed 1Y

Job ID: 890-2204-1

SDG: 03A198701

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2204-5 MSD

Client Sample ID: PH09

Matrix: Solid Prep Type: Soluble Analysis Batch: 24343

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Limits RPD Limit Analyte Result Qualifier Unit D %Rec Chloride <4.97 U 249 90 90 - 110 20 224.8 mg/Kg

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14

Job ID: 890-2204-1 Client: Ensolum SDG: 03A198701 Project/Site: Pecos Fed 1Y

GC VOA

Prep Batch: 24099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2205-11	PH14	Total/NA	Solid	5035	
890-2205-12	PH14	Total/NA	Solid	5035	

Prep Batch: 24100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-24100/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 24102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2204-1	PH07	Total/NA	Solid	5035	
890-2204-2	PH07	Total/NA	Solid	5035	
890-2204-3	PH08	Total/NA	Solid	5035	
890-2204-4	PH08	Total/NA	Solid	5035	
MB 880-24102/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24102/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24102/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2204-1 MS	PH07	Total/NA	Solid	5035	
890-2204-1 MSD	PH07	Total/NA	Solid	5035	

Analysis Batch: 24112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2204-1	PH07	Total/NA	Solid	8021B	24102
890-2204-2	PH07	Total/NA	Solid	8021B	24102
890-2204-3	PH08	Total/NA	Solid	8021B	24102
890-2204-4	PH08	Total/NA	Solid	8021B	24102
MB 880-24100/5-A	Method Blank	Total/NA	Solid	8021B	24100
MB 880-24102/5-A	Method Blank	Total/NA	Solid	8021B	24102
LCS 880-24102/1-A	Lab Control Sample	Total/NA	Solid	8021B	24102
LCSD 880-24102/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24102
890-2204-1 MS	PH07	Total/NA	Solid	8021B	24102
890-2204-1 MSD	PH07	Total/NA	Solid	8021B	24102

Analysis Batch: 24248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2204-1	PH07	Total/NA	Solid	Total BTEX	
890-2204-2	PH07	Total/NA	Solid	Total BTEX	
890-2204-3	PH08	Total/NA	Solid	Total BTEX	
890-2204-4	PH08	Total/NA	Solid	Total BTEX	
890-2204-5	PH09	Total/NA	Solid	Total BTEX	
890-2204-6	PH09	Total/NA	Solid	Total BTEX	
890-2204-7	PH10	Total/NA	Solid	Total BTEX	
890-2204-8	PH10	Total/NA	Solid	Total BTEX	
890-2204-9	PH13	Total/NA	Solid	Total BTEX	
890-2204-10	PH13	Total/NA	Solid	Total BTEX	

Prep Batch: 24266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2204-5	PH09	Total/NA	Solid	5035	
MB 880-24266/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24266/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24266/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Client: Ensolum Job ID: 890-2204-1 Project/Site: Pecos Fed 1Y SDG: 03A198701

GC VOA (Continued)

Prep Batch: 24266 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14226-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-14226-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 24304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2205-11	PH14	Total/NA	Solid	8021B	24099
890-2205-12	PH14	Total/NA	Solid	8021B	24099

Analysis Batch: 24426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2205-11	PH14	Total/NA	Solid	Total BTEX	
890-2205-12	PH14	Total/NA	Solid	Total BTEX	

Analysis Batch: 24447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2204-5	PH09	Total/NA	Solid	8021B	24266
MB 880-24266/5-A	Method Blank	Total/NA	Solid	8021B	24266
LCS 880-24266/1-A	Lab Control Sample	Total/NA	Solid	8021B	24266
LCSD 880-24266/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24266
880-14226-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	24266
880-14226-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	24266

Analysis Batch: 24450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2204-6	PH09	Total/NA	Solid	8021B	24473
890-2204-7	PH10	Total/NA	Solid	8021B	24473
890-2204-8	PH10	Total/NA	Solid	8021B	24473
890-2204-9	PH13	Total/NA	Solid	8021B	24473
890-2204-10	PH13	Total/NA	Solid	8021B	24473
MB 880-24473/5-A	Method Blank	Total/NA	Solid	8021B	24473
LCS 880-24473/1-A	Lab Control Sample	Total/NA	Solid	8021B	24473
LCSD 880-24473/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24473
880-14236-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	24473
880-14236-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	24473

Prep Batch: 24473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2204-6	PH09	Total/NA	Solid	5035	
890-2204-7	PH10	Total/NA	Solid	5035	
890-2204-8	PH10	Total/NA	Solid	5035	
890-2204-9	PH13	Total/NA	Solid	5035	
890-2204-10	PH13	Total/NA	Solid	5035	
MB 880-24473/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24473/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24473/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14236-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-14236-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Client: Ensolum Job ID: 890-2204-1
Project/Site: Pecos Fed 1Y SDG: 03A198701

GC Semi VOA

Analysis Batch: 23813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2204-1	PH07	Total/NA	Solid	8015B NM	23828
890-2204-2	PH07	Total/NA	Solid	8015B NM	23828
890-2204-3	PH08	Total/NA	Solid	8015B NM	23828
890-2204-4	PH08	Total/NA	Solid	8015B NM	23828
890-2204-5	PH09	Total/NA	Solid	8015B NM	23828
890-2204-6	PH09	Total/NA	Solid	8015B NM	23828
890-2204-7	PH10	Total/NA	Solid	8015B NM	23828
890-2204-8	PH10	Total/NA	Solid	8015B NM	23828
890-2204-9	PH13	Total/NA	Solid	8015B NM	23828
890-2204-10	PH13	Total/NA	Solid	8015B NM	23828
MB 880-23828/1-A	Method Blank	Total/NA	Solid	8015B NM	23828
LCS 880-23828/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23828
LCSD 880-23828/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23828
890-2202-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	23828
890-2202-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	23828

Analysis Batch: 23817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method P	rep Batch
890-2205-11	PH14	Total/NA	Solid	8015B NM	23857
890-2205-12	PH14	Total/NA	Solid	8015B NM	23857

Prep Batch: 23828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2204-1	PH07	Total/NA	Solid	8015NM Prep	
890-2204-2	PH07	Total/NA	Solid	8015NM Prep	
890-2204-3	PH08	Total/NA	Solid	8015NM Prep	
890-2204-4	PH08	Total/NA	Solid	8015NM Prep	
890-2204-5	PH09	Total/NA	Solid	8015NM Prep	
890-2204-6	PH09	Total/NA	Solid	8015NM Prep	
890-2204-7	PH10	Total/NA	Solid	8015NM Prep	
890-2204-8	PH10	Total/NA	Solid	8015NM Prep	
890-2204-9	PH13	Total/NA	Solid	8015NM Prep	
890-2204-10	PH13	Total/NA	Solid	8015NM Prep	
MB 880-23828/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23828/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23828/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2202-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2202-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 23857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2205-11	PH14	Total/NA	Solid	8015NM Prep	
890-2205-12	PH14	Total/NA	Solid	8015NM Prep	

Analysis Batch: 23902

Released to Imaging: 1/23/2024 10:57:26 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2205-11	PH14	Total/NA	Solid	8015 NM	
890-2205-12	PH14	Total/NA	Solid	8015 NM	

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Job ID: 890-2204-1 Client: Ensolum Project/Site: Pecos Fed 1Y SDG: 03A198701

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Analysis Batch: 23931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2204-1	PH07	Total/NA	Solid	8015 NM	
890-2204-2	PH07	Total/NA	Solid	8015 NM	
890-2204-3	PH08	Total/NA	Solid	8015 NM	
890-2204-4	PH08	Total/NA	Solid	8015 NM	
890-2204-5	PH09	Total/NA	Solid	8015 NM	
890-2204-6	PH09	Total/NA	Solid	8015 NM	
890-2204-7	PH10	Total/NA	Solid	8015 NM	
890-2204-8	PH10	Total/NA	Solid	8015 NM	
890-2204-9	PH13	Total/NA	Solid	8015 NM	
890-2204-10	PH13	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 23841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2204-1	PH07	Soluble	Solid	DI Leach	_
890-2204-2	PH07	Soluble	Solid	DI Leach	
890-2204-3	PH08	Soluble	Solid	DI Leach	
890-2204-4	PH08	Soluble	Solid	DI Leach	
890-2204-5	PH09	Soluble	Solid	DI Leach	
890-2204-6	PH09	Soluble	Solid	DI Leach	
890-2204-7	PH10	Soluble	Solid	DI Leach	
890-2204-8	PH10	Soluble	Solid	DI Leach	
890-2204-9	PH13	Soluble	Solid	DI Leach	
890-2204-10	PH13	Soluble	Solid	DI Leach	
MB 880-23841/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23841/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23841/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2204-5 MS	PH09	Soluble	Solid	DI Leach	
890-2204-5 MSD	PH09	Soluble	Solid	DI Leach	

Leach Batch: 23842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2205-11	PH14	Soluble	Solid	DI Leach	
890-2205-12	PH14	Soluble	Solid	DI Leach	

Analysis Batch: 24343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2204-1	PH07	Soluble	Solid	300.0	23841
890-2204-2	PH07	Soluble	Solid	300.0	23841
890-2204-3	PH08	Soluble	Solid	300.0	23841
890-2204-4	PH08	Soluble	Solid	300.0	23841
890-2204-5	PH09	Soluble	Solid	300.0	23841
890-2204-6	PH09	Soluble	Solid	300.0	23841
890-2204-7	PH10	Soluble	Solid	300.0	23841
890-2204-8	PH10	Soluble	Solid	300.0	23841
890-2204-9	PH13	Soluble	Solid	300.0	23841
890-2204-10	PH13	Soluble	Solid	300.0	23841
MB 880-23841/1-A	Method Blank	Soluble	Solid	300.0	23841
LCS 880-23841/2-A	Lab Control Sample	Soluble	Solid	300.0	23841
LCSD 880-23841/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23841

Job ID: 890-2204-1 Client: Ensolum Project/Site: Pecos Fed 1Y

SDG: 03A198701

HPLC/IC (Continued)

Analysis Batch: 24343 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2204-5 MS	PH09	Soluble	Solid	300.0	23841
890-2204-5 MSD	PH09	Soluble	Solid	300.0	23841

Analysis Batch: 24345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2205-11	PH14	Soluble	Solid	300.0	23842
890-2205-12	PH14	Soluble	Solid	300.0	23842

Project/Site: Pecos Fed 1Y

Client: Ensolum

Matrix: Solid

Date	Collected:	04/18/22	12:55
Date	Received:	04/19/22	13:33

	Batch	Batch		Dil	l Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	24102	04/23/22 13:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24112	04/25/22 18:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24248	04/26/22 10:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23931	04/21/22 10:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23828	04/20/22 11:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23813	04/20/22 23:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23841	04/20/22 12:40	SC	XEN MID
Soluble	Analysis	300.0		1			24343	04/28/22 00:17	CH	XEN MID

Client Sample ID: PH07 Date Collected: 04/18/22 13:00

Date Received: 04/19/22 13:33

Lab Sample ID: 890-2204-2

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	24102	04/23/22 13:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24112	04/25/22 19:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24248	04/26/22 10:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23931	04/21/22 10:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23828	04/20/22 11:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23813	04/20/22 23:42	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	23841	04/20/22 12:40	SC	XEN MID
Soluble	Analysis	300.0		1			24343	04/28/22 00:23	CH	XEN MID

Client Sample ID: PH08 Lab Sample ID: 890-2204-3

Date Collected: 04/18/22 13:05 Date Received: 04/19/22 13:33

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	24102	04/23/22 13:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24112	04/25/22 19:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24248	04/26/22 10:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23931	04/21/22 10:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	23828	04/20/22 11:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23813	04/21/22 00:02	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23841	04/20/22 12:40	SC	XEN MID
Soluble	Analysis	300.0		1			24343	04/28/22 00:29	CH	XEN MID

Client Sample ID: PH08 Lab Sample ID: 890-2204-4 Date Collected: 04/18/22 13:10 Matrix: Solid

Date Received: 04/19/22 13:33

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	24102	04/23/22 13:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24112	04/25/22 20:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24248	04/26/22 10:02	AJ	XEN MID

Client: Ensolum Job ID: 890-2204-1
Project/Site: Pecos Fed 1Y SDG: 03A198701

Client Sample ID: PH08

Lab Sample ID: 890-2204-4

Date Collected: 04/18/22 13:10

Date Received: 04/19/22 13:33

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			23931	04/21/22 10:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23828	04/20/22 11:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23813	04/21/22 00:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	23841	04/20/22 12:40	SC	XEN MID
Soluble	Analysis	300.0		1			24343	04/28/22 00:36	CH	XEN MID

Client Sample ID: PH09 Lab Sample ID: 890-2204-5

Date Collected: 04/18/22 13:20

Matrix: Solid

Date Received: 04/19/22 13:33

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	24266	04/26/22 15:48	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24447	04/29/22 02:22	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			24248	04/26/22 10:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23931	04/21/22 10:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23828	04/20/22 11:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23813	04/21/22 00:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	23841	04/20/22 12:40	SC	XEN MID
Soluble	Analysis	300.0		1			24343	04/28/22 00:42	CH	XEN MID

Client Sample ID: PH09

Date Collected: 04/18/22 13:25

Lab Sample ID: 890-2204-6

Matrix: Solid

Date Collected: 04/18/22 13:25 Date Received: 04/19/22 13:33

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	24473	04/29/22 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24450	04/29/22 17:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24248	04/26/22 10:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23931	04/21/22 10:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23828	04/20/22 11:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23813	04/21/22 01:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	23841	04/20/22 12:40	SC	XEN MID
Soluble	Analysis	300.0		1			24343	04/28/22 01:01	CH	XEN MID

Client Sample ID: PH10

Lab Sample ID: 890-2204-7

Date Collected: 04/18/22 13:35

Matrix: Solid

Date Received: 04/19/22 13:33

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	24473	04/29/22 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24450	04/29/22 17:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24248	04/26/22 10:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23931	04/21/22 10:45	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	23828 23813	04/20/22 11:30 04/21/22 01:45	DM AJ	XEN MID XEN MID

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SDG: 03A198701

Client Sample ID: PH10

Project/Site: Pecos Fed 1Y

Client: Ensolum

Lab Sample ID: 890-2204-7

Matrix: Solid

Date Collected: 04/18/22 13:35 Date Received: 04/19/22 13:33

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	23841	04/20/22 12:40	SC	XEN MID
Soluble	Analysis	300.0		1			24343	04/28/22 01:07	CH	XEN MID

Client Sample ID: PH10 Lab Sample ID: 890-2204-8

Date Collected: 04/18/22 13:40 Matrix: Solid

Date Received: 04/19/22 13:33

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	24473	04/29/22 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24450	04/29/22 18:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24248	04/26/22 10:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23931	04/21/22 10:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23828	04/20/22 11:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23813	04/21/22 02:06	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23841	04/20/22 12:40	SC	XEN MID
Soluble	Analysis	300.0		1			24343	04/28/22 01:27	CH	XEN MID

Lab Sample ID: 890-2204-9 **Client Sample ID: PH13 Matrix: Solid**

Date Collected: 04/19/22 08:55

Date Received: 04/19/22 13:33

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	24473	04/29/22 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24450	04/29/22 18:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24248	04/26/22 10:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23931	04/21/22 10:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23828	04/20/22 11:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23813	04/21/22 02:26	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	23841	04/20/22 12:40	SC	XEN MID
Soluble	Analysis	300.0		1			24343	04/28/22 01:33	CH	XEN MID

Client Sample ID: PH13 Lab Sample ID: 890-2204-10 Date Collected: 04/19/22 09:00 Matrix: Solid

Date Received: 04/19/22 13:33

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	24473	04/29/22 09:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24450	04/29/22 18:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24248	04/26/22 10:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23931	04/21/22 10:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23828	04/20/22 11:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23813	04/21/22 02:47	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23841	04/20/22 12:40	SC	XEN MID
Soluble	Analysis	300.0		1			24343	04/28/22 01:39	CH	XEN MID

Project/Site: Pecos Fed 1Y

Client: Ensolum

Job ID: 890-2204-1 SDG: 03A198701

Client Sample ID: PH14 Lab Sample ID: 890-2205-11

Date Collected: 04/19/22 08:25 **Matrix: Solid** Date Received: 04/19/22 13:33

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	24099	04/23/22 12:31	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24304	04/27/22 20:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24426	04/28/22 11:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23902	04/21/22 09:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23857	04/20/22 15:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23817	04/21/22 02:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23842	04/20/22 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			24345	04/28/22 08:18	CH	XEN MID

Client Sample ID: PH14 Lab Sample ID: 890-2205-12 Date Collected: 04/19/22 08:30 **Matrix: Solid**

Date Received: 04/19/22 13:33

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	24099	04/23/22 12:31	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24304	04/27/22 20:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24426	04/28/22 11:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23902	04/21/22 09:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23857	04/20/22 15:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23817	04/21/22 03:01	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	23842	04/20/22 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			24345	04/28/22 08:25	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2204-1
Project/Site: Pecos Fed 1Y SDG: 03A198701

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analyte	e are included in this reno	art but the laboratory is r	ant portified by the governing outbority	This list may include analytes for u
the agency does not	offer certification.	•	not certified by the governing authority.	This list may include analytes for w
	•	Matrix	Analyte	This list may include analytes for w
the agency does not	offer certification.	•	, , ,	This list may include analytes for w

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Method Summary

Client: Ensolum

Project/Site: Pecos Fed 1Y

Job ID: 890-2204-1

SDG: 03A198701

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
0.00	Anions, Ion Chromatography	MCAWW	XEN MID
035	Closed System Purge and Trap	SW846	XEN MID
015NM Prep	Microextraction	SW846	XEN MID
I Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Sample Summary

Client: Ensolum

Project/Site: Pecos Fed 1Y

Job ID: 890-2204-1

SDG: 03A198701

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2204-1	PH07	Solid	04/18/22 12:55	04/19/22 13:33	0.5
890-2204-2	PH07	Solid	04/18/22 13:00	04/19/22 13:33	1
890-2204-3	PH08	Solid	04/18/22 13:05	04/19/22 13:33	0.5
890-2204-4	PH08	Solid	04/18/22 13:10	04/19/22 13:33	1
890-2204-5	PH09	Solid	04/18/22 13:20	04/19/22 13:33	0.5
890-2204-6	PH09	Solid	04/18/22 13:25	04/19/22 13:33	1
890-2204-7	PH10	Solid	04/18/22 13:35	04/19/22 13:33	0.5
890-2204-8	PH10	Solid	04/18/22 13:40	04/19/22 13:33	1
890-2204-9	PH13	Solid	04/19/22 08:55	04/19/22 13:33	0.5
890-2204-10	PH13	Solid	04/19/22 09:00	04/19/22 13:33	1
890-2205-11	PH14	Solid	04/19/22 08:25	04/19/22 13:33	0.5
890-2205-12	PH14	Solid	04/19/22 08:30	04/19/22 13:33	1

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Relinquished by: (Signature)

Received by Signature)

4. 13333 Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco, Amhimum charge of \$35.00 will be applied to sect project and a charge of \$35 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Tl Sn U V Zn TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631/245.1/7470 /7471

Circle Method(s) and Metal(s) to be analyzed

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BT Ch		iol	83							ANALYSIS REQUEST	DVN. COM	Carlsbad Nm, 88220	5315 Buerna Vista Dr	Devon emergy corporation	Jim Raky	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	CNAIN OT CUSTODY Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	
		890-2204 Chain of Custody								QUEST	Deliverables: EDD ADal	Reporting: Level II Level III	3	Program: UST/PST PRP Bro	Work Order Comments	www.xenco.com	Work Order No:	
Sample Comments	NaOH+Ascorbic Acid; SAPC	7n Acetate±NaOH-7n	Na.,S.,O.: NaSO	NaHSO .: NABIS					None: NO DI Water: H ₂ O	Preservative Codes	ADaPT Other:	Level II Level III PST/UST TRRP Level IV	[UST/PST PRP Brownfields RRC Superfund	3	Page I of 2		

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Received by: (Signature) Date/Time	Relinquished by: (Signature) Receive	Pate/Time Reli 「A・Ja「ろうろ	÷	(M Synsignature)	(Joseph Control of the Control of t	O John Marie
	ervice. Eurofins Xenco will be liable only for the cost of samples and validation or other from clinic tempenary of Eurofins Sence, its affiliates and subcontractors. It assigns standard terms and conditions under sample and validation assume any responsibility for any losses or expenses incurred by the client if such bosses are due to circumstances beyond the control of the cost of the	ins Yenco, its affiliates and subcontrates incurred by the client if such losse incurred by the client if such losse incurred. The	rom client company to Euro bility for any losses or expen each sample submitted to E	hall not assume any responsi roject and a charge of \$5 for	ally for the cost of samples and s \$85.00 will be applied to each p	ervice, Eurofins Xenco will be liable only f urofins Xenco, Arminimum charge of \$85 Relinquished by / (Signs at tick)
e Ag SiO ₂ Na Sr Tl Sn U V Zn Hg:1631/245.1/7470 /7471	S	As Ba Be B Cd Ca C b As Ba Be Cd Cr Co	Texas 11 Al Sb P 6010 : 8RCRA s	8RCRA 13PPM TCLP/SPLP	tal(s) to be analyzed	ircle Method(s) and Metal(s) to be analyzed
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Committee Authorite		BTO TPH Chla	Depth Grab/ #of	Date Time Sampled Sampled	Matrix D	Sample Identification
Zn Acetate+NaOH: Zn				Corrected Temperature:	Con	oral containers,
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UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐	Program: UST/P					Address
Work Order Comments			Control of Control			Company Name:
www.xenco.com Page 1 of 1			Bill to: (if different			Project Manager:
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Eurofins Carlsbad

Chain of Custody Record

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Carispan NM 88220																Company
																Minda
Client Information (Sub Contract Lab)	Sampler			Lab PM Kramer Jes	Jessica					Carrier Tracking No(s)	acking I	vo(s)			COC No 890-713 1	
l	Phone			E-Mail: Jessica Kramer@et.eurofinsus com	ner@e	eurofi	nsus c	B	7 0	State of Origin: New Mexico	rigin:				Page Page 1 of 2	
Company Eurofins Environment Testing South Centr				Accredita NELAP	Accreditations Required (See note): NELAP - Texas	quired (S	ee note	×							Job# 890-2204-1	
Address 1211 W Florida Ave	Due Date Requested 4/25/2022	ĕ					Ana	nalvsis	Regu	Requested	_				Preservation Codes	des
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State Zip TX, 79701				ing of the fill										Leonatifementa	D Nitric Acid E NaHSO4	P Na2O4S Q Na2SO3
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PH09 (890-2204-6)	4/18/22	13 25 Mountain	Solid		×	×	×	×					-	*		
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PH13 (890-2204-9)	4/19/22	08 55 Mountain	Solid		×	×	×	×						- 443		
Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC alaboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central, LLC.	ment Testing South Cent d above for analysis/tests Central LLC attention in	ral, LLC places s/matrix being a nmediately If a	the ownership of method nalyzed the samples mu requested accreditation	analyte & acc it be shipped t s are current b	reditation back to the	complia e Eurofii turn the	ince upo is Envira	n out su onment Chain of	bcontract Testing S	t labora South Co attestin	tories entral L g to sak	This sar _C labo	nple sh ratory o cance t	pment r other o Euro	is forwarded under c instructions will be pu fins Environment Tes	chain-of-custody If the rovided Any changes to sting South Central LLC.
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Relinquished by:	Date/Time		Company		Received by:	by:						Date/Time	me			Company
Custody Seal No					Cooler Temperature(s)	mperati	re(s) °C	and	Other Remarks	arks			l			

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				Date	Primary Deliverable Rank		h Central LLC is/tests/matrix t			22 11 50 Mountain						$\sqrt{\frac{N}{N}}$	Sample Time						ited (days)	quested				2	בת כל
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	Company		Company	ompany			of method an mples must b creditations a		***	Solid	Solid	Solid	Solid	Solid	Solid	Preservation Code:	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air									E-Mail Jessi	Lab PM Krame	Citalli of Custody Necord	₹ 2
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			L.F.			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Mon	forwarded under instructions will be passed in the following services the following the following for the following services and the following services in the following services are services and the following services are services as the services are services are services as the services										Special II	Other:	K EDTA L-EDA	I Ice J DI Water		C Zn Acetate D Nitric Acid E NaHSO4		Preservation Codes	Job # 890-2204-1	Page: Page 2 of 2	COC No: 890-713 2		🖏 eurofins
Ver 06/08/2021	Company	Company	Company			1 month) Months	chain-of-custody If the provided Any changes to sting South Central LLC.										Special Instructions/Note					O AsNaO2 P Na2O4S Q Na2SO3		des				America	

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2204-1 SDG Number: 03A198701

Login Number: 2204 **List Source: Eurofins Carlsbad**

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2204-1

SDG Number: 03A198701

Login Number: 2204
List Source: Eurofins Midland
List Number: 2
List Creation: 04/20/22 10:37 AM

Creator: Teel, Brianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Released to Imaging: 1/23/2024 10:57:26 AM

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Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2323-2

Laboratory Sample Delivery Group: 03A1987014

Client Project/Site: Pecos Federal #001Y

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Joseph Hernandez

JURAMER

Authorized for release by: 5/24/2022 7:53:08 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

0/24/2022 7:53:08 AM essica Kramer Proie

Ask—The Expert

Have a Question?

EOL

····· Links ······

Review your project results through

Visit us at:

www.eurofinsus.com/Env
Released to Imaging: 1/23/2024 10:57:26 AM

Results relate only to the items tested and the sample(s) as received by the laboratory.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

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Client: Ensolum
Laboratory Job ID: 890-2323-2
Project/Site: Pecos Federal #001Y
SDG: 03A1987014

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Method Summary	15
Sample Summary	16
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4

Definitions/Glossary

Job ID: 890-2323-2 Client: Ensolum Project/Site: Pecos Federal #001Y

SDG: 03A1987014

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present **PQL Practical Quantitation Limit**

PRES Presumptive

QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Pecos Federal #001Y

Job ID: 890-2323-2

SDG: 03A1987014

Job ID: 890-2323-2

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2323-2

Receipt

The samples were received on 5/19/2022 4:11 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-26028 and analytical batch 880-26024 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Matrix: Solid

Lab Sample ID: 890-2323-7

Client Sample Results

Client: Ensolum Job ID: 890-2323-2 Project/Site: Pecos Federal #001Y SDG: 03A1987014

Client Sample ID: PH12

Date Collected: 05/18/22 12:15 Date Received: 05/19/22 16:11

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/23/22 11:13	05/23/22 13:22	
Toluene	<0.00198	U	0.00198		mg/Kg		05/23/22 11:13	05/23/22 13:22	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/23/22 11:13	05/23/22 13:22	
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/23/22 11:13	05/23/22 13:22	
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/23/22 11:13	05/23/22 13:22	
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/23/22 11:13	05/23/22 13:22	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	110		70 - 130				05/23/22 11:13	05/23/22 13:22	
1,4-Difluorobenzene (Surr)	96		70 - 130				05/23/22 11:13	05/23/22 13:22	
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
: Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/04/00 00 44	
-								05/24/22 08:44	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						05/24/22 08:44	
	• •	RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	05/24/22 08:44 Analyzed	
Analyte Gasoline Range Organics	• •	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 05/23/22 08:23		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U		MDL		<u>D</u>	<u>·</u>	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	05/23/22 08:23	Analyzed 05/23/22 14:24	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9	Qualifier U U U	49.9	MDL	mg/Kg	<u>D</u>	05/23/22 08:23 05/23/22 08:23	Analyzed 05/23/22 14:24 05/23/22 14:24	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result <49.9 <49.9 <49.9	Qualifier U U U	49.9 49.9 49.9	MDL	mg/Kg	<u>D</u>	05/23/22 08:23 05/23/22 08:23 05/23/22 08:23	Analyzed 05/23/22 14:24 05/23/22 14:24 05/23/22 14:24	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U	49.9 49.9 49.9 <i>Limits</i>	MDL	mg/Kg	<u>D</u>	05/23/22 08:23 05/23/22 08:23 05/23/22 08:23 Prepared	Analyzed 05/23/22 14:24 05/23/22 14:24 05/23/22 14:24 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U Qualifier	49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg	<u> </u>	05/23/22 08:23 05/23/22 08:23 05/23/22 08:23 Prepared 05/23/22 08:23	Analyzed 05/23/22 14:24 05/23/22 14:24 05/23/22 14:24 Analyzed 05/23/22 14:24	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/23/22 08:23 05/23/22 08:23 05/23/22 08:23 Prepared 05/23/22 08:23	Analyzed 05/23/22 14:24 05/23/22 14:24 05/23/22 14:24 Analyzed 05/23/22 14:24	Dil Fac

Surrogate Summary

Client: Ensolum Job ID: 890-2323-2
Project/Site: Pecos Federal #001Y SDG: 03A1987014

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Reco
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2323-7	PH12	110	96	
890-2323-A-1-E MS	Matrix Spike	118	91	
890-2323-A-1-F MSD	Matrix Spike Duplicate	110	95	
LCS 880-26086/1-A	Lab Control Sample	108	92	
LCSD 880-26086/2-A	Lab Control Sample Dup	113	90	
MB 880-26086/5-A	Method Blank	107	89	
Surrogate Legend				
BFB = 4-Bromofluorobenzene	(Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2323-7	PH12	98	107	
890-2323-A-2-B MS	Matrix Spike	101	102	
890-2323-A-2-C MSD	Matrix Spike Duplicate	93	93	
LCS 880-26028/2-A	Lab Control Sample	103	107	
LCSD 880-26028/3-A	Lab Control Sample Dup	109	113	
MB 880-26028/1-A	Method Blank	107	122	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum Job ID: 890-2323-2 Project/Site: Pecos Federal #001Y SDG: 03A1987014

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-26086/5-A

Lab Sample ID: LCS 880-26086/1-A

Matrix: Solid

Analysis Batch: 26017

Matrix: Solid Analysis Batch: 26017 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26086

ı		MB	мв							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 11:13	05/23/22 12:40	1
	Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 11:13	05/23/22 12:40	1
	Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 11:13	05/23/22 12:40	1
I	m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/23/22 11:13	05/23/22 12:40	1
	o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 11:13	05/23/22 12:40	1
	Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/23/22 11:13	05/23/22 12:40	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	05/23/22 11:13	05/23/22 12:40	1
1,4-Difluorobenzene (Surr)	89		70 - 130	05/23/22 11:13	05/23/22 12:40	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26086

Prep Type: Total/NA

Prep Batch: 26086

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.07806 mg/Kg 78 70 - 130 Toluene 0.100 0.09288 mg/Kg 93 70 - 130 0.100 0.09738 Ethylbenzene mg/Kg 97 70 - 130 0.200 101 70 - 130 m-Xylene & p-Xylene 0.2011 mg/Kg 0.100 0.1007 101 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Lab Sample ID: LCSD 880-26086/2-A

Analysis Batch: 26017

	Spike	LCSD I	LCSD				%Rec		RPD
Analyte	Added	Result (Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07770		mg/Kg		78	70 - 130		35
Toluene	0.100	0.09565		mg/Kg		96	70 - 130	3	35
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2095		mg/Kg		105	70 - 130	4	35
o-Xylene	0.100	0.1055		mg/Kg		105	70 - 130	5	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1.4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 890-2323-A-1-E MS

Matrix: Solid

Analysis Batch: 26017

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 26086

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.101	0.07463		mg/Kg		74	70 - 130	
Toluene	< 0.00201	U	0.101	0.08606		mg/Kg		85	70 - 130	

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Prep Batch: 26086

Prep Type: Total/NA

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26028

QC Sample Results

Job ID: 890-2323-2 Client: Ensolum Project/Site: Pecos Federal #001Y SDG: 03A1987014

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2323-A-1-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 26017

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U	0.101	0.08076		mg/Kg		80	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.202	0.1659		mg/Kg		82	70 - 130	
o-Xylene	<0.00201	U	0.101	0.08089		mg/Kg		80	70 - 130	

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 118 1,4-Difluorobenzene (Surr) 70 - 130 91

Lab Sample ID: 890-2323-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 26017									Prep	Batch:	26086
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0990	0.07739		mg/Kg		78	70 - 130	4	35
Toluene	<0.00201	U	0.0990	0.08395		mg/Kg		85	70 - 130	2	35
Ethylbenzene	<0.00201	U	0.0990	0.07464		mg/Kg		75	70 - 130	8	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1500		mg/Kg		76	70 - 130	10	35
o-Xylene	<0.00201	U	0.0990	0.07520		mg/Kg		76	70 - 130	7	35

MSD MSD Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 110 1,4-Difluorobenzene (Surr) 95 70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-26028/1-A

Matrix: Solid

Analysis Batch: 26024

	MB	MB						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/23/22 08:23	05/23/22 09:53	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/23/22 08:23	05/23/22 09:53	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/23/22 08:23	05/23/22 09:53	1

MB MB %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 05/23/22 08:23 1-Chlorooctane 107 70 - 130 05/23/22 09:53 122 70 - 130 05/23/22 08:23 05/23/22 09:53 o-Terphenyl

Lab Sample ID: LCS 880-26028/2-A Client Sample ID: Lab Control Sample

Analysis Batch: 26024

Matrix: Solid

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits 1000 89 70 - 130 888 2 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 800.7 mg/Kg 80 70 - 130

C10-C28)

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Prep Type: Total/NA

Prep Batch: 26028

Job ID: 890-2323-2 Client: Ensolum Project/Site: Pecos Federal #001Y

SDG: 03A1987014

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-26028/2-A

Matrix: Solid

Analysis Batch: 26024

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26028

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 103 70 - 130 o-Terphenyl 107 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26028

Lab Sample ID: LCSD 880-26028/3-A **Matrix: Solid** Analysis Batch: 26024

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 908.6 91 70 - 1302 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 914.8 91 mg/Kg 70 - 13013 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 109 70 - 130 1-Chlorooctane 113 70 - 130 o-Terphenyl

Lab Sample ID: 890-2323-A-2-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 26024

Prep Type: Total/NA

Prep Batch: 26028

MS MS Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.0 U F1 F2 1000 1466 F1 mg/Kg 144 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 1000 948.2 mg/Kg 95 70 - 130

C10-C28)

MS MS %Recovery Surrogate

Qualifier Limits 70 - 130 1-Chlorooctane 101 70 - 130 o-Terphenyl 102

Lab Sample ID: 890-2323-A-2-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 26024

Prep Batch: 26028 Sample Sample MSD MSD RPD Spike %Rec

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit U F1 F2 999 1176 F2 Gasoline Range Organics <50.0 116 70 - 130 22 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 999 871.0 mg/Kg 87 70 - 130 8 20

C10-C28)

MSD MSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 93 70 - 130 93 70 - 130 o-Terphenyl

QC Sample Results

Job ID: 890-2323-2 Client: Ensolum Project/Site: Pecos Federal #001Y

SDG: 03A1987014

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-26083/1-A

Lab Sample ID: LCS 880-26083/2-A

Client Sample ID: Method Blank

Prep Type: Soluble

Analysis Batch: 26099

Matrix: Solid

Matrix: Solid

MB MB

MDL Unit Dil Fac Analyte Result Qualifier RL D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 05/23/22 13:07

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Client Sample ID: PH12

Prep Type: Soluble

Analysis Batch: 26099

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 236.5 mg/Kg 95 90 - 110

Lab Sample ID: LCSD 880-26083/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 26099

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 236.2 mg/Kg 90 - 110

Lab Sample ID: 890-2323-7 MS Client Sample ID: PH12 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 26099

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 382 253 634.6 100 90 - 110 mg/Kg

Lab Sample ID: 890-2323-7 MSD

Matrix: Solid

Analysis Batch: 26099

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 253 382 614.2 mg/Kg 92 90 - 110 20

QC Association Summary

Client: Ensolum

Project/Site: Pecos Federal #001Y

Job ID: 890-2323-2 SDG: 03A1987014

87014

GC VOA

Analysis Batch: 26017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2323-7	PH12	Total/NA	Solid	8021B	26086
MB 880-26086/5-A	Method Blank	Total/NA	Solid	8021B	26086
LCS 880-26086/1-A	Lab Control Sample	Total/NA	Solid	8021B	26086
LCSD 880-26086/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26086
890-2323-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	26086
890-2323-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	26086

Prep Batch: 26086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2323-7	PH12	Total/NA	Solid	5035	
MB 880-26086/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-26086/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-26086/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2323-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-2323-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 26110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2323-7	PH12	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 26024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2323-7	PH12	Total/NA	Solid	8015B NM	26028
MB 880-26028/1-A	Method Blank	Total/NA	Solid	8015B NM	26028
LCS 880-26028/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26028
LCSD 880-26028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26028
890-2323-A-2-B MS	Matrix Spike	Total/NA	Solid	8015B NM	26028
890-2323-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	26028

Prep Batch: 26028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2323-7	PH12	Total/NA	Solid	8015NM Prep	
MB 880-26028/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26028/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2323-A-2-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2323-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 26126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2323-7	PH12	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 26083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2323-7	PH12	Soluble	Solid	DI Leach	
MB 880-26083/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-26083/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-26083/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum Job ID: 890-2323-2 Project/Site: Pecos Federal #001Y SDG: 03A1987014

HPLC/IC (Continued)

Leach Batch: 26083 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2323-7 MS	PH12	Soluble	Solid	DI Leach	
890-2323-7 MSD	PH12	Soluble	Solid	DI Leach	

Analysis Batch: 26099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2323-7	PH12	Soluble	Solid	300.0	26083
MB 880-26083/1-A	Method Blank	Soluble	Solid	300.0	26083
LCS 880-26083/2-A	Lab Control Sample	Soluble	Solid	300.0	26083
LCSD 880-26083/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	26083
890-2323-7 MS	PH12	Soluble	Solid	300.0	26083
890-2323-7 MSD	PH12	Soluble	Solid	300.0	26083

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14

Lab Chronicle

Client: Ensolum Job ID: 890-2323-2 Project/Site: Pecos Federal #001Y SDG: 03A1987014

Client Sample ID: PH12 Lab Sample ID: 890-2323-7

Date Collected: 05/18/22 12:15 Matrix: Solid Date Received: 05/19/22 16:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	26086	05/23/22 11:13	MR	XEN MID
Total/NA	Analysis	8021B		1			26017	05/23/22 13:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26110	05/23/22 17:01	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			26126	05/24/22 08:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26028	05/23/22 08:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26024	05/23/22 14:24	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	26083	05/23/22 10:58	SC	XEN MID
Soluble	Analysis	300.0		1			26099	05/23/22 13:35	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2323-2 Project/Site: Pecos Federal #001Y

Laboratory: Eurofins Midland

SDG: 03A1987014

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes the agency does not of	' '	it the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes f
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	

Method Summary

Client: Ensolum

Method

8021B

Total BTEX

8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

Project/Site: Pecos Federal #001Y

Method Description

Total BTEX Calculation

Microextraction

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Deionized Water Leaching Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

Job ID: 890-2323-2

SDG: 03A1987014

Protocol	Laboratory
SW846	XEN MID
TAL SOP	XEN MID
SW846	XEN MID
SW846	XEN MID
MCAWW	XEN MID
SW846	XEN MID

XEN MID

XEN MID

SW846

ASTM

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum

Project/Site: Pecos Federal #001Y

Job ID: 890-2323-2

SDG: 03A1987014

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2323-7	PH12	Solid	05/18/22 12:15	05/19/22 16:11	1



City, State ZIP:

Carlsbad, NM 88220 3122 National Parks Hwy

City, State ZIP:

Carlsbad, NM 88220 5315 Buena Vista Dr. Devon Energy Corporation

Company Name: Bill to: (if different)

Jim Raley

Project Manager: Company Name: ddress:

> Ensolum, LLC. Ben Belill

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Work Order No:

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Work Order Comments	mments	
Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐	elds 🗌 RRC 🗌	Superfund [
State of Project:		
Reporting: Level II Level III PST/UST TRRP Level IV	ST 🗌 TRRP 🛭] Level IV
Deliverables: EDD	☐ Other:	
SIS REQUEST	Preservative Codes	e Codes

Phone: 989	989-854-0852		Email: ji	Email: jim raley@dvn.com, bbelill@ensolum.com	n.com	bbelil	l@ens	solum.	om Deliverables: EDD L	EDD ADaP1 Other:
Project Name:	Pecos Federal #001Y	017	Turn Around	round					ANALYSIS REQUEST	Preservative Codes
Project Number:	03A1987014		✓ Routine	Rush	Pres.					None: NO DI Water: H ₂ O
Project Location:	Rural Eddy	D	Due Date:	5 Day TAT						Cool: Cool MeOH: Me
Sampler's Name:	Gilbert Moreno	1	AT starts the o	TAT starts the day received by	Ì			.0		HCL: HC HNO3: HN
PO#:	CC: 1061183501 1061084	<u>~</u>	the lab, if received by 4:30pm	ved by 4:30pm	rs	В	/D	300		H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank:		Wet ice:	No No	nete	021	15 M	HOD		H₃PO₄: HP
Samples Received Intact:	(Yes) No	Thermometer ID:	⋾	som/s	ran	DD 8	D 80	ETH		NaHSO ₄ : NABIS
Cooler Custody Seals:	Yes No MA	Correction Factor:		-6,7	Pa	THO	НОІ	'A N	890-2323 Chain of Custody	Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:		ا ه ٦		ME	WET	- EF		Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature:	_	Ø C	<u> </u>	EPA	PA	IDE		NaOH+Ascorbic Acid: SAPC
Sample Identification	ation Matrix	Date Sampled	Time Sampled	Depth Comp	# of	BTEX -	TPH - E	CHLOR		Sample Comments
PH01	S	5.18.22	10:55 4'	Compa	-1	×	×	×		incident ID
PH01	s	5.18.22	11:00 7	· comp	7	×	×	×		
PH02	S	5.18.22	14:00 6'	' Comp	٥ -	×	×	×		nAPP2208846424
PH02	S	5.18.22	14:05 7'	, Comp	 0	×	×	×		
PH11	S	5.18.22	11:05 0	0.5' G omp	<u>-</u>	×	×	×		
PH11	S	5.18.22	11:10 7	, ¢omb	-	×	×	×		PH 12 (11)
RusH PH12	S	5.18.22	12:15 1'	Comp	-	×	×	×		* 27 14 TS TS TS
PH12	S	5.18.22	12:20 7'	(Comp	7	×	×	×		
PH13	S	5.18.22	12:30 2'	Comp	7	×	×	×		
PH13	S	5.18.22	12:35 7'	Comp		×	×	×		
Total 200.7 / 6010	200.8 / 6020:	8R	8RCRA 13PPM	M Texas 11	≥	Sb As Ba	Ba	ВеВ	Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K	NiK Se Ag SiO₂ Na Sr TiSn UV Zn
Circle Method(s) and Metal(s) to be analyzed	fetal(s) to be analyze	d	TCLP / SP	TCLP / SPLP 6010: 8RCRA	RCRA	Sb A	s Ba	Ве	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	
Notice: Signature of this docun	nent and relinquishment of a	amples constitu	utes a valid puro	chase order fron	client c	ompany	to Euro	fins Xen	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from cilent company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions	terms and conditions
of service. Eurofins Xenco will of Eurofins Xenco. A minimum	be liable only for the cost on the cost of the cost of \$85.00 will be appropriately	f samples and s plied to each pro	hall not assume bject and a char	any responsibl ge of \$6 for eacl	lity for a	ny losse: submitt	s or exp ed to Eu	enses ir	or service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$86.00 will be applied to each project and a charge of \$6 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	ices beyond the control less previously negotiated.
Relinguished by: (Signature)	onature)	. Reseived I	Reseived by: (Signature)	Ге)		Date.	Date/Time		Relinguished by: (Signature)	Received by: (Signature) Date/Time

Revised Date: 08/25/2020 Rev 2020.

Carlsbad, NM 88220 Phone. 575-988-3199 Fax. 575-988-3199 1

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1089 N Canal St.

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Chain of Custody Record

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Environment Testing
America

PH11 (890-2323-5) State Zip: TX, 79701 PH12 (890-2323-8) PH02 (890-2323-3) Vote Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the aboratory does not currently maintain accreditation in the State of Origin listed above for analysis/testsmatrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC, attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC. PH13 (890-2323-10) PH13 (890-2323-9) PH11 (890-2323-6) PH02 (890-2323-4) PH01 (890-2323-2) PH01 (890-2323-1) Client Information ossible Hazard Identification 1211 W Florida Ave ecos Federal #001Y 32-704-5440(Tel) Shipping/Receiving mpty Kit Relinquished by eliverable Requested I II, III IV Other (specify) ample Identification - Client ID (Lab ID) /lidland linquished by urofins Environment Testing South Centr Custody Seals Intact. inquished BY O Nas oject Name linquished confirmed Yes 8 (Sub Contract Lab) Custody Seal No Ó 2000 Project #: 89000084 Date/Time Primary Deliverable Rank. Phone Date/Time Sample Date FAT Requested (days) Due Date Requested 5/18/22 5/18/22 5/18/22 5/18/22 5/18/22 5/18/22 5/18/22 5/18/22 5/18/22 Mountain 12 30 Mountain 11 10 Mountain 12 35 Mountain 12 20 Mountain 11 05 Mountain 14 05 Mountain 14 00 Mountain 11 00 Date 10 55 (C=comp G=grab Sample Type Preservation Code Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid E-Mail Jessica Kramer@et.eurofinsus com Kramer, Jessica Time Field Filtered Sample (Yes or No) NELAP - Texas ccreditations Required (See note): Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Received by: × × Cooler Temperature(s) °C and Other Remarks. × × × × × × × Return To Client × × 8015MOD NM/8015NM S Prep Full TPH × × × × × × × × × × × × × 300_ORGFM_28D/DI_LEACH Chloride × × × × 8021B/6036FP_Calc BTEX × × × × × × Analysis Requested × × × \times × × Total BTEX GCV Disposal By Lab New Mexico State of Origin: Camer Tracking No(s) Method of Shipment 15/23/ Date/Time 192 Archive For -4 هاز Total Number of containers A HCL
B NaCH
C Zn Acetate
D Nitric Acid
F MeOH
G Amchior
H Ascorbic Acid
I Ice
J DI Water
K EDTA
L-EDA COC No: 890-764 1 Preservation Codes Page 1 of 1 390-2323-1 900 Special Instructions/Note M Hexane
N None
O AsNaO2
P NaZO4S
Q NaZSO3
R NaZSO3
S HZSO4
T TSP Dodecahydrate U Acetone
V MCAA
W - pH 4-5
Y Trizma
Z other (sr Company Company other (specify)

Ver 06/08/2021

1089 N Canal St Carlsbad NM 88220 1

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Eurofins Carlsbad

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Chain of Custody Record

🐝 eurofins

Environment Testing
America

State Zip: TX, 79701 PH12 (890-2323-7) Vote Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the aboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/metrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC alterdions will be provided. Any changes to excreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC. Pecos Federal #001Y 432-704-5440(Tel) ossible Hazard Identification elinquished by No Sivas mpty Kit Relinquished by Deliverable Requested | II III IV Other (specify) Midland 211 W Florida Ave, ²hone 575-988-3199 Fax 575-988-3199 ample Identification - Client ID (Lab ID) urofins Environment Testing South Centr hipping/Receiving linquished by oject Name ent Contact: lient Information (Sub Contract Lab) Custody Seal No かるうし Project #: 89000084 WO# Date/Time Date/Time Primary Deliverable Rank 2 TAT Requested (days). Due Date Requested Phone: Sampler Sample Date 5/18/22 Date Mountair 12 15 (C=comp, G=grab) Sample Preservation Code: Type Company Company Matrix Solid Jessica Kramer@et.eurofinsus.com
Accreditations Required (See note)
NELAP - Texas Kramer Jessica Time Field Filtered Sample (Yes or No) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Moni Special Instructions/QC Requirements Perform MS/MSD (Yes or No) Cooler Temperature(s) °C and Other Remarks Received by Received b Received by: × 8015MOD Calo 8016MOD_NM/8016NM_S_Prep Full TPH 300_ORGFM_28D/DI_LEACH Chloride × × 8021B/6036FP Calc BTEX **Analysis Requested** × Total BTEX GCV State of Origin
New Mexico Carrier Tracking No(s) Nethod of Shipment Ď Date/Time Date/Time 0 14 P Total Number of containers B A HCL
NACH NACH
C-Zn Acetate
D Nitric Acid
E NaHSO4
F MoOH
G Amchlor
I Ice
J-DI Water
K EDTA
L EDA COC No: 890-764 1 890-2323-2 Page 1 of 1 Special Instructions/Note: 3 Company Company M. Hexane
V. None
Valence
Vale other (specify)

Ver: 06/08/2021

5/24/2022

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2323-2 SDG Number: 03A1987014

Login Number: 2323 List Source: Eurofins Carlsbad

List Number: 1

Creator: Olivas, Nathaniel

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2323-2

SDG Number: 03A1987014

Login Number: 2323 **List Source: Eurofins Midland** List Number: 2

List Creation: 05/23/22 08:18 AM

Creator: Kramer, Jessica

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1/1.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

Released to Imaging: 1/23/2024 10:57:26 AM

<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2324-1

Laboratory Sample Delivery Group: 03A1987014

Client Project/Site: Pecos Federal #001Y

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Ben Belill

MRAMER

Authorized for release by: 5/25/2022 10:48:18 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env
Released to Imaging: 1/23/2024 10:57:26 AM

Results relate only to the items tested and the sample(s) as received by the laboratory.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

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Client: Ensolum
Project/Site: Pecos Federal #001Y
Laboratory Job ID: 890-2324-1
SDG: 03A1987014

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Definitions/Glossary

Job ID: 890-2324-1 Client: Ensolum Project/Site: Pecos Federal #001Y

SDG: 03A1987014

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

LCS/LCSD RPD exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Eac	Dilution Factor

Dil Fac Dilution Factor

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry) Method Detection Limit

MDL ML Minimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

Not Calculated NC

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NFG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points RPD

Toxicity Equivalent Factor (Dioxin) TEF TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Pecos Federal #001Y

Job ID: 890-2324-1

SDG: 03A1987014

Job ID: 890-2324-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2324-1

Receipt

The sample was received on 5/19/2022 4:11 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (890-2327-A-21-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-26030 and analytical batch 880-26020 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10. The MS/MSD RPD passes therefore shows recovery for the batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Matrix: Solid

Lab Sample ID: 890-2324-1

Job ID: 890-2324-1

Client: Ensolum Project/Site: Pecos Federal #001Y SDG: 03A1987014

Client Sample ID: PH12

Date Collected: 05/18/22 11:45 Date Received: 05/19/22 16:11

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		05/23/22 11:13	05/23/22 18:10	
Toluene	< 0.00199	U	0.00199		mg/Kg		05/23/22 11:13	05/23/22 18:10	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/23/22 11:13	05/23/22 18:10	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/23/22 11:13	05/23/22 18:10	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		05/23/22 11:13	05/23/22 18:10	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/23/22 11:13	05/23/22 18:10	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	114		70 - 130				05/23/22 11:13	05/23/22 18:10	
1,4-Difluorobenzene (Surr)	98		70 - 130				05/23/22 11:13	05/23/22 18:10	
- Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/24/22 11:05	
Mothod: 2045 NM Discal Donne	Organias (DD	0) (00)							
Method: 8015 NM - Diesel Range Analyte	•	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH			49.9	WIDE	mg/Kg		Frepareu	05/24/22 09:49	Dilla
	140.0	O	40.0		mg/rtg				
Mathada 004FD NM Diagral Day								03/24/22 09.49	
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)						03/24/22 09.49	
	• •	RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte	• •	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 05/23/22 08:26		Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier		MDL		<u>D</u>		Analyzed	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U *1		MDL		<u>D</u>		Analyzed	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U *1	49.9	MDL	mg/Kg	<u>D</u>	05/23/22 08:26 05/23/22 08:26	Analyzed 05/23/22 16:13 05/23/22 16:13	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U *1	49.9	MDL	mg/Kg	<u> </u>	05/23/22 08:26	Analyzed 05/23/22 16:13	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9	Qualifier U *1 U	49.9	MDL	mg/Kg	<u>D</u>	05/23/22 08:26 05/23/22 08:26	Analyzed 05/23/22 16:13 05/23/22 16:13	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U *1 U	49.9 49.9 49.9	MDL	mg/Kg	<u> </u>	05/23/22 08:26 05/23/22 08:26 05/23/22 08:26	Analyzed 05/23/22 16:13 05/23/22 16:13 05/23/22 16:13	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U *1 U	49.9 49.9 49.9 <i>Limits</i>	MDL	mg/Kg	<u>D</u>	05/23/22 08:26 05/23/22 08:26 05/23/22 08:26 Prepared	Analyzed 05/23/22 16:13 05/23/22 16:13 05/23/22 16:13 Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U *1 U Qualifier	49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg	<u> </u>	05/23/22 08:26 05/23/22 08:26 05/23/22 08:26 Prepared 05/23/22 08:26	Analyzed 05/23/22 16:13 05/23/22 16:13 05/23/22 16:13 Analyzed 05/23/22 16:13	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U *1 U Qualifier	49.9 49.9 49.9 Limits 70 - 130		mg/Kg	<u>D</u>	05/23/22 08:26 05/23/22 08:26 05/23/22 08:26 Prepared 05/23/22 08:26	Analyzed 05/23/22 16:13 05/23/22 16:13 05/23/22 16:13 Analyzed 05/23/22 16:13	Dil Fa

Surrogate Summary

Client: Ensolum Job ID: 890-2324-1 Project/Site: Pecos Federal #001Y SDG: 03A1987014

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

•				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2323-A-1-E MS	Matrix Spike	118	91	
890-2323-A-1-F MSD	Matrix Spike Duplicate	110	95	
890-2324-1	PH12	114	98	
LCS 880-26086/1-A	Lab Control Sample	108	92	
LCSD 880-26086/2-A	Lab Control Sample Dup	113	90	
MB 880-26086/5-A	Method Blank	107	89	
Surrogate Legend				
BFB = 4-Bromofluorobei	nzene (Surr)			
DFBZ = 1.4-Difluoroben:	zene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2324-1	PH12	107	115	
890-2327-A-21-B MS	Matrix Spike	115	114	
890-2327-A-21-C MSD	Matrix Spike Duplicate	103	101	
LCS 880-26030/2-A	Lab Control Sample	130	130	
LCSD 880-26030/3-A	Lab Control Sample Dup	110	110	
MB 880-26030/1-A	Method Blank	107	114	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum Job ID: 890-2324-1 SDG: 03A1987014 Project/Site: Pecos Federal #001Y

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-26086/5-A

Matrix: Solid

Analysis Batch: 26017

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26086

MB	MB	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 11:13	05/23/22 12:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 11:13	05/23/22 12:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 11:13	05/23/22 12:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/23/22 11:13	05/23/22 12:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 11:13	05/23/22 12:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/23/22 11:13	05/23/22 12:40	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	05/23/22 11:13	05/23/22 12:40	1
1,4-Difluorobenzene (Surr)	89		70 - 130	05/23/22 11:13	05/23/22 12:40	1

Lab Sample ID: LCS 880-26086/1-A

Matrix: Solid

Analysis Batch: 26017

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26086

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07806		mg/Kg		78	70 - 130	
Toluene	0.100	0.09288		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.09738		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.2011		mg/Kg		101	70 - 130	
o-Xylene	0.100	0.1007		mg/Kg		101	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-26086/2-A

Matrix: Solid

Analysis Batch: 26017

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26086

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07770		mg/Kg		78	70 - 130	0	35
Toluene	0.100	0.09565		mg/Kg		96	70 - 130	3	35
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2095		mg/Kg		105	70 - 130	4	35
o-Xylene	0.100	0.1055		mg/Kg		105	70 - 130	5	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	113	70 - 130
1,4-Difluorobenzene (Surr)	90	70 - 130

Lab Sample ID: 890-2323-A-1-E MS

Matrix: Solid

Analysis Batch: 26017

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 26086

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.101	0.07463		mg/Kg		74	70 - 130	
Toluene	<0.00201	U	0.101	0.08606		mg/Kg		85	70 - 130	

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Prep Batch: 26086

QC Sample Results

Job ID: 890-2324-1 Client: Ensolum Project/Site: Pecos Federal #001Y SDG: 03A1987014

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2323-A-1-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 26017

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U	0.101	0.08076		mg/Kg		80	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.202	0.1659		mg/Kg		82	70 - 130	
o-Xylene	< 0.00201	U	0.101	0.08089		mg/Kg		80	70 - 130	

MS MS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 890-2323-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 26017

Prep Type: Total/NA Prep Batch: 26086

Sample Sample Spike MSD MSD RPD Result Qualifier RPD Limit Analyte Added Result Qualifier %Rec Limits Unit Benzene <0.00201 U 0.0990 0.07739 mg/Kg 78 70 - 130 4 35 Toluene <0.00201 U 0.0990 0.08395 mg/Kg 85 70 - 130 2 35 Ethylbenzene <0.00201 U 0.0990 0.07464 75 70 - 130 8 35 mg/Kg 0.198 70 - 130 35 m-Xylene & p-Xylene <0.00402 U 0.1500 mg/Kg 76 10 <0.00201 U 0.0990 0.07520 76 70 - 130 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-26030/1-A Client Sample ID: Method Blank **Matrix: Solid**

Analysis Batch: 26020

	Prep Type: Total/NA
	Prep Batch: 26030
MB MB	

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Analyte <50.0 U 50.0 05/23/22 08:26 05/23/22 10:03 Gasoline Range Organics mg/Kg (GRO)-C6-C10 05/23/22 08:26 05/23/22 10:03 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 05/23/22 08:26 05/23/22 10:03 mg/Kg

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107	70 - 130	05/23/22 08:26	05/23/22 10:03	1
o-Terphenyl	114	70 - 130	05/23/22 08:26	05/23/22 10:03	1

Lab Sample ID: LCS 880-26030/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 26020** Prep Batch: 26030 Spike LCS LCS %Rec

Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	1073	-	mg/Kg		107	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1058		mg/Kg		106	70 - 130
C10-C28)							

Analysis Batch: 26020

Job ID: 890-2324-1 Client: Ensolum Project/Site: Pecos Federal #001Y

SDG: 03A1987014

Prep Batch: 26030

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-26030/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 130 70 - 130 o-Terphenyl 130 70 - 130

Lab Sample ID: LCSD 880-26030/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 26020 Prep Batch: 26030

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 844.8 *1 84 70 - 13024 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 88 877.5 mg/Kg 70 - 13019 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 110 110 70 - 130 o-Terphenyl

Lab Sample ID: 890-2327-A-21-B MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 26020 Prep Batch: 26030 Sample Sample Spike MS MS

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	<50.0	U *1	1000	1181		mg/Kg		115	70 - 130
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	1000	1228		mg/Kg		123	70 - 130
C10-C28)									

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 115 o-Terphenyl 114 70 - 130

Lab Sample ID: 890-2327-A-21-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA Analysis Batch: 26020 Prep Batch: 26030

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics <50.0 U *1 999 1023 mg/Kg 100 70 - 130 14 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 999 1081 mg/Kg 108 70 - 130 13 20

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	101		70 - 130

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C10-C28)

Client: Ensolum Job ID: 890-2324-1 Project/Site: Pecos Federal #001Y SDG: 03A1987014

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-26084/1-A

Matrix: Solid

Analysis Batch: 26199

MB MB

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 05/25/22 04:55

Lab Sample ID: LCS 880-26084/2-A

Matrix: Solid

Analysis Batch: 26199

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Unit D Limits Chloride 250 247.4 mg/Kg 99 90 - 110

Lab Sample ID: LCSD 880-26084/3-A

Matrix: Solid

Analysis Batch: 26199

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 255.6 mg/Kg 102 90 - 110

Lab Sample ID: 890-2323-A-1-C MS

Matrix: Solid

Analysis Batch: 26199

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier Result Unit %Rec Limits Chloride 233 249 458.2 90 - 110 mg/Kg

Lab Sample ID: 890-2323-A-1-D MSD

Matrix: Solid

Analysis Batch: 26199

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 249 Chloride 233 477.2 mg/Kg 98 90 - 110 20

Client: Ensolum Job ID: 890-2324-1
Project/Site: Pecos Federal #001Y SDG: 03A1987014

GC VOA

Analysis Batch: 26017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2324-1	PH12	Total/NA	Solid	8021B	26086
MB 880-26086/5-A	Method Blank	Total/NA	Solid	8021B	26086
LCS 880-26086/1-A	Lab Control Sample	Total/NA	Solid	8021B	26086
LCSD 880-26086/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26086
890-2323-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	26086
890-2323-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	26086

Prep Batch: 26086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2324-1	PH12	Total/NA	Solid	5035	
MB 880-26086/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-26086/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-26086/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2323-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-2323-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 26171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2324-1	PH12	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 26020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2324-1	PH12	Total/NA	Solid	8015B NM	26030
MB 880-26030/1-A	Method Blank	Total/NA	Solid	8015B NM	26030
LCS 880-26030/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26030
LCSD 880-26030/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26030
890-2327-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	26030
890-2327-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	26030

Prep Batch: 26030

Lab Sample ID 890-2324-1	Client Sample ID PH12	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-26030/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26030/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26030/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2327-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2327-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 26154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2324-1	PH12	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 26084

Γ					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2324-1	PH12	Soluble	Solid	DI Leach	
MB 880-26084/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-26084/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-26084/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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Client: Ensolum Job ID: 890-2324-1 Project/Site: Pecos Federal #001Y SDG: 03A1987014

HPLC/IC (Continued)

Leach Batch: 26084 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2323-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2323-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 26199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2324-1	PH12	Soluble	Solid	300.0	26084
MB 880-26084/1-A	Method Blank	Soluble	Solid	300.0	26084
LCS 880-26084/2-A	Lab Control Sample	Soluble	Solid	300.0	26084
LCSD 880-26084/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	26084
890-2323-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	26084
890-2323-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	26084

Lab Chronicle

Client: Ensolum Job ID: 890-2324-1
Project/Site: Pecos Federal #001Y SDG: 03A1987014

Client Sample ID: PH12

Lab Sample ID: 890-2324-1

Matrix: Solid

Date Collected: 05/18/22 11:45 Date Received: 05/19/22 16:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	26086	05/23/22 11:13	MR	XEN MID
Total/NA	Analysis	8021B		1			26017	05/23/22 18:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26171	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26154	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26030	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26020	05/23/22 16:13	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26084	05/23/22 11:02	SC	XEN MID
Soluble	Analysis	300.0		1			26199	05/25/22 07:23	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2324-1 Project/Site: Pecos Federal #001Y SDG: 03A1987014

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report, but	it the laboratory is not certific	ed by the governing authority. This list ma	v include analytes for
the agency does not of	• •	it the laboratory is not certain	su by the governing authority. This list his	ay include analytes lo
,	• •	Matrix	Analyte	ay include analytes for
the agency does not of	fer certification.	,	, , ,	ay include analytes lo

Method Summary

Client: Ensolum Job ID: 890-2324-1
Project/Site: Pecos Federal #001Y SDG: 03A1987014

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Sample Summary

Client: Ensolum

Project/Site: Pecos Federal #001Y

Job ID: 890-2324-1

SDG: 03A1987014

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2324-1	PH12	Solid	05/18/22 11:45	05/19/22 16:11	0.5

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Revised Date: 08/25/2020 Rev. 2020 2

and

eurofins: **Environment Testing**

Project Manager:

Company Name:

\ddress:

Project Location:

Project Number: Project Name: Phone: City, State ZIP:

Sampler's Name:

Samples Received Intact: SAMPLE RECEIPT

Cooler Custody Seals:

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, L Hobbs, NM (575) 392-7550, Ca Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Work Order No:

roject Manager Be	Ben Beliff			Bill to: (if different)		Jim Ralev	alev			Work Order Comments	Comments
	Ensolum LLC			Company Name:		Devor	Energ	Devon Energy Corporation	ration	Program: UST/PST 🗌 PRP 🗌 Brow] PRP Brownfields RRC Superfund
	3122 National Parks Hwy	s Hwy		Address:		5315	Buena	5315 Buena Vista Dr.		State of Project:	
e ZIP:	Carlsbad, NM 88220	0		City, State ZIP:		Carlst	ad, N	Carlsbad, NM 88220		Reporting: Level II Level III L PST/UST L TRRP L	ST/UST TRRP Level IV
	989-854-0852		Email:	Email: im.raley@dvn.com, bbelill@ensolum.com	.com,	bbelill	@ens	olum.	m	Deliverables: EDD ADaPT	Other:
roject Name:	Pecos Federal #001Y	al #001Y	Turn	Turn Around					ANALYSIS REQUEST	REQUEST	Preservative Codes
roject Number:	03A1987014	014	☑ Routine	Rush	Pres.						
roject Location:	Rural Eddy	ddy	Due Date:	5 Day TAT							_
ampler's Name:	Gilbert Moreno	preno	TAT starts the	TAT starts the day received by				.0			
0#	CC: 1061183501	83501 1061034;	\sim	ived by 4:30pm	rs	В	/D	300			H ₂ SU ₄ : H ₂ NaOH. Na
AMPLE RECEIPT	Temp Blank:	.21		(Yes) No	nete	30211	15M	HOD			H ₃ PO ₄ : HP
amples Received Intact:	at: (√es) No	Thermometer ID:	ter iD:	10-N/2	aran	OD 8	D 80	METH			Na SO NaSO
ooler Custody Seals:	°	MA Correction Factor:	Factor:	100	Pa	THO	гно	PAN		Chain of Custody	Na ₂ O ₂ O ₃ . NaOO ₃
ample Custody Seals:		N/A Temperatu	Temperature Reading:	1.00		ME	MET	- EF	890-222-0	-	Zn Acetate+NaOH: Zil
otal Containers:		_	Corrected Temperature:	0.8		EPA	PA	RIDE			NaOm+Ascolbic Acid. GA. G
Sample Identification	cation Matrix	trix Sampled	Time Sampled	Depth Comp	# of Cont	BTEX -	TPH - E	CHLOF			Sample Comments
PH12	S	5.18.22	11:45	0.5' Comp		×	×	×			Incident ID
				CEAR							nAPP2208846424
										\Vdash	
Total 200.7 / 6010	200.8 / 6020:		8RCRA 13PPM	PM Texas 11	4 4 11	Sb As	As Ba	Be B	B Cd Ca Cr Co Cu Fe P	Mg Mn Mo Ni K Se A	\g SiO ₂ Na Sr Tl Sn U V Zn Ha∵ 1631 / 245 1 / 7470 / 7471
rcle Method(s) and Metal(s) to be analyzed	Metal(s) to be ana	alyzed	TCLP / SF	TCLP / SPLP 6010: 8RCRA	CRA A	Sb A	s Ba	Be C	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo	Ni Se Ag II U	1111-
e: Signature of this docu	ument and relinquishma	ent of samples con cost of samples ar	stitutes a valid pu nd shall not assum	rchase order from le any responsibili	client co	y losse	to Euro	fins Xei	tice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses is		
urofins xenco. A minimum charge or	im charge or \$85.00 will	De applied to each project and a charge	project and a cria	ige of 30 for each	audina	Militana	מין ניט ביני	I CILIED	Eurolins Kenco. A minimum charge of \$65,00 Will be applied to each project and a charge of \$6 for each semiple substituted to Euronias Action, see that the entering Action, see that the entering Action is a serious and serious actions.		
						Data Time			Balinguished by: (Signature)	Received by: (Signature)	iture) Date/Time

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 1

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Chain of Custody Record

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Environment Testing America

State Zip TX 79701 Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central. LLC. PH12 (890-2324-1) Sample Identification - Client ID (Lab ID) Pecos Federal #001Y Empty Kit Relinquished by Deliverable Requested I II III IV Other (specify) ossible Hazard Identification 432-704-5440(Tel) Midland Eurofins Environment Testing South Centr Shipping/Receiving Phone 575-988-3199 Fax 575-988-3199 elinquished by Client Information (Sub Contract Lab) elinquished by: 211 W Florida Ave nconfirmed) hypos Custody Seal No かるる Primary Deliverable Rank 2 Date/Time: TAT Requested (days))ate/Time Sample Date 39000084 5/25/2022 Due Date Requested 5/18/22 Date Sample Time 11 45 G=grab) (C=comp, Sample Type Preservation Code: BT=Tissue, A=A Company Company Company Matrix Solid Kramer, Jessica Jessica Kramer@et.eurofinsus com Time. NELAP - Texas ccreditations Required (See note): Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Received by Cooler Temperature(s) °C and Other Remarks. × 8015MOD Calo Return To Client × 8015MOD_NM/8015NM_S_Prep Full TPH × 300_ORGFM_28D/DI_LEACH Chloride × 8021B/5035FP_Calc BTEX Analysis Requested Total_BTEX_GCV × Disposal By Lab State of Origin.
New Mexico Carrier Tracking No(s) Method of Shipment Date/Time Date/Time 198 Archive For X Total Number of containers 661 A HCL
B NAOH
C Zn Acetate
D Nitric Acid
E NaHSO4
F MeOH
G-Amchlor
H Ascorbic Acid
I loe
J DI Water
K EDTA
L-EDA Page 1 of 1 COC No 890-764 1 Preservation 890-2324-1 000 Special Instructions/Note N ≺ ≶ < C ⊣ O ∏ O ™ O ™ S × S Company Company Company 1 Hexane
1 None
2 Ashao2
3 Na204S
3 Na2S03
3 Na2S03
3 H2S04
1 TSP Dodecahydrate
J Acetone
WCAA
W pH 4-5
W pH 4-5 other (specify) Months

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2324-1 SDG Number: 03A1987014

Login Number: 2324 List Source: Eurofins Carlsbad

List Number: 1

Creator: Olivas, Nathaniel

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2324-1

SDG Number: 03A1987014

Login Number: 2324
List Source: Eurofins Midland
List Number: 2
List Creation: 05/23/22 08:18 AM

Creator: Kramer, Jessica

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1/1.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2326-1

Laboratory Sample Delivery Group: 03A1987014

Client Project/Site: Pecos Federal #001Y

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Ben Belill

MAMER

Authorized for release by: 5/25/2022 10:48:52 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

5/25/2022 10:48:52 Ai

Review your project results through EOL.

Have a Question?

Ask
The

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www.eurofinsus.com/Env
Released to Imaging: 1/23/2024 10:57:26 AM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Ensolum

Laboratory Job ID: 890-2326-1

Project/Site: Pecos Federal #001Y

SDG: 03A1987014

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Definitions/Glossary

Client: Ensolum Job ID: 890-2326-1 Project/Site: Pecos Federal #001Y

SDG: 03A1987014

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)

MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MOL	Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RLReporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Pecos Federal #001Y

Job ID: 890-2326-1

SDG: 03A1987014

Job ID: 890-2326-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2326-1

Receipt

The samples were received on 5/19/2022 4:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-26028 and analytical batch 880-26024 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-26124/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-26124 and analytical batch 880-26134 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). The MS/MSD RPD passed within limits and therefore shows recovery for the batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-26084 and 880-26084 and analytical batch 880-26199 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Ensolum

Job ID: 890-2326-1

Lab Sample ID: 890-2326-1

SDG: 03A1987014

Matrix: Solid

Client Sample ID: PH15

Date Collected: 05/18/22 11:15 Date Received: 05/19/22 16:12

Project/Site: Pecos Federal #001Y

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 11:13	05/23/22 18:31	
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 11:13	05/23/22 18:31	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 11:13	05/23/22 18:31	•
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/23/22 11:13	05/23/22 18:31	
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 11:13	05/23/22 18:31	•
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/23/22 11:13	05/23/22 18:31	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130				05/23/22 11:13	05/23/22 18:31	
1,4-Difluorobenzene (Surr)	98		70 - 130				05/23/22 11:13	05/23/22 18:31	•
- Method: Total BTEX - Total B	TEX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/24/22 11:05	
Method: 9045 NM Discol Dec	ngo Organico (DD	0) (CC)							
			RI	MDI	Unit	n	Propared	Analyzed	Dil Fa
Analyte	Result	O) (GC) Qualifier	RL	MDL	Unit ma/Ka	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte			RL	MDL	Unit mg/Kg	D	Prepared	Analyzed 05/24/22 09:21	Dil Fac
Analyte Total TPH	Result 67.9	Qualifier		MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel R	Result 67.9 ange Organics (D	Qualifier				<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Ranalyte Gasoline Range Organics	Result 67.9 ange Organics (D	Qualifier RO) (GC) Qualifier	50.0		mg/Kg			05/24/22 09:21	
Analyte Total TPH Method: 8015B NM - Diesel Re Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 67.9 ange Organics (D Result	Qualifier RO) (GC) Qualifier U	50.0		mg/Kg		Prepared	05/24/22 09:21 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Re Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ange Organics (D Result <50.0	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 05/23/22 08:24	05/24/22 09:21 Analyzed 05/23/22 16:59	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Re Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 67.9	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 05/23/22 08:24 05/23/22 08:24	05/24/22 09:21 Analyzed 05/23/22 16:59 05/23/22 16:59	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Re Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 05/23/22 08:24 05/23/22 08:24 05/23/22 08:24	Analyzed 05/23/22 16:59 05/23/22 16:59	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Re Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 05/23/22 08:24 05/23/22 08:24 05/23/22 08:24 Prepared	05/24/22 09:21 Analyzed 05/23/22 16:59 05/23/22 16:59 05/23/22 16:59 Analyzed	Dil Fac
Surrogate	Result	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 05/23/22 08:24 05/23/22 08:24 05/23/22 08:24 Prepared 05/23/22 08:24	Analyzed 05/23/22 16:59 05/23/22 16:59 05/23/22 16:59 Analyzed 05/23/22 16:59	Dil Fac

Client Sample ID: PH15

Date Collected: 05/18/22 11:20

Lab Sample ID: 890-2326-2

Matrix: Solid

101

mg/Kg

8780 F1

Date Collected: 05/18/22 11:20 Date Received: 05/19/22 16:12

Sample Depth: 1

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/23/22 11:13	05/23/22 18:51	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/23/22 11:13	05/23/22 18:51	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/23/22 11:13	05/23/22 18:51	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/23/22 11:13	05/23/22 18:51	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/23/22 11:13	05/23/22 18:51	1
Xylenes, Total	< 0.00396	U	0.00396		mg/Kg		05/23/22 11:13	05/23/22 18:51	1

Eurofins Carlsbad

05/25/22 07:32

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12

Matrix: Solid

Client: Ensolum Job ID: 890-2326-1 Project/Site: Pecos Federal #001Y SDG: 03A1987014

Client Sample ID: PH15

Lab Sample ID: 890-2326-2 Date Collected: 05/18/22 11:20 Date Received: 05/19/22 16:12

Sample Depth: 1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				05/23/22 11:13	05/23/22 18:51	1
1,4-Difluorobenzene (Surr)	96		70 - 130				05/23/22 11:13	05/23/22 18:51	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/24/22 11:05	1
Method: 8015 NM - Diesel Range	∍ Organics (DR0) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	147		49.9		mg/Kg			05/24/22 09:21	1
Method: 8015B NM - Diesel Ran	ge Organics (DI	RO) (GC)							
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	147		49.9		mg/Kg		05/23/22 08:24	05/23/22 17:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/23/22 08:24	05/23/22 17:21	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:24	05/23/22 17:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier MDL Unit Analyte RLD Prepared Analyzed Dil Fac Chloride 1570 25.0 mg/Kg 05/25/22 08:00

Limits

70 - 130

70 - 130

Client Sample ID: PH16 Date Collected: 05/18/22 11:25

%Recovery Qualifier

101

110

Date Received: 05/19/22 16:12

Sample Depth: 0.5

Surrogate

o-Terphenyl

1-Chlorooctane

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/23/22 11:13	05/23/22 19:12	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/23/22 11:13	05/23/22 19:12	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/23/22 11:13	05/23/22 19:12	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/23/22 11:13	05/23/22 19:12	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/23/22 11:13	05/23/22 19:12	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/23/22 11:13	05/23/22 19:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				05/23/22 11:13	05/23/22 19:12	1
1,4-Difluorobenzene (Surr)	96		70 - 130				05/23/22 11:13	05/23/22 19:12	1
Method: Total BTEX - Total B1	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/24/22 11:05	1
Method: 8015 NM - Diesel Rar	ige Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	144		50.0		mg/Kg			05/24/22 09:21	

Eurofins Carlsbad

Dil Fac

Matrix: Solid

Prepared

05/23/22 08:24

05/23/22 08:24

Analyzed

05/23/22 17:21

05/23/22 17:21

Lab Sample ID: 890-2326-3

Client Sample Results

Client: Ensolum Job ID: 890-2326-1 Project/Site: Pecos Federal #001Y SDG: 03A1987014

Client Sample ID: PH16

Date Collected: 05/18/22 11:25 Date Received: 05/19/22 16:12

Sample Depth: 0.5

Lab Sample ID: 890-2326-3

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	144		50.0		mg/Kg		05/23/22 08:24	05/23/22 17:42	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		05/23/22 08:24	05/23/22 17:42	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:24	05/23/22 17:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				05/23/22 08:24	05/23/22 17:42	1
o-Terphenyl	109		70 - 130				05/23/22 08:24	05/23/22 17:42	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
						_		A ll	D:: F
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: PH16 Lab Sample ID: 890-2326-4 Date Collected: 05/18/22 11:30 **Matrix: Solid**

Date Received: 05/19/22 16:12

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/23/22 11:13	05/23/22 19:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/23/22 11:13	05/23/22 19:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/23/22 11:13	05/23/22 19:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/23/22 11:13	05/23/22 19:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/23/22 11:13	05/23/22 19:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/23/22 11:13	05/23/22 19:32	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				05/23/22 11:13	05/23/22 19:32	1
1,4-Difluorobenzene (Surr)	93		70 - 130				05/23/22 11:13	05/23/22 19:32	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/24/22 11:05	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:21	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:24	05/23/22 18:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:24	05/23/22 18:03	,
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:24	05/23/22 18:03	1

Eurofins Carlsbad

05/23/22 18:03

05/23/22 18:03

05/23/22 08:24

05/23/22 08:24

70 - 130

70 - 130

89

94

1-Chlorooctane

o-Terphenyl

Client Sample Results

Client: Ensolum Job ID: 890-2326-1 Project/Site: Pecos Federal #001Y SDG: 03A1987014

Client Sample ID: PH16

Date Received: 05/19/22 16:12

Sample Depth: 1

Lab Sample ID: 890-2326-4 Date Collected: 05/18/22 11:30 Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Dil Fac Analyte RL MDL Unit D Prepared Analyzed 24.9 05/25/22 08:36 Chloride 673 mg/Kg

Client Sample ID: PH17 Lab Sample ID: 890-2326-5 **Matrix: Solid**

Date Collected: 05/18/22 11:35 Date Received: 05/19/22 16:12

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 11:13	05/23/22 19:53	
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 11:13	05/23/22 19:53	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 11:13	05/23/22 19:53	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/23/22 11:13	05/23/22 19:53	
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 11:13	05/23/22 19:53	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/23/22 11:13	05/23/22 19:53	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	115		70 - 130				05/23/22 11:13	05/23/22 19:53	-
1,4-Difluorobenzene (Surr)	96		70 - 130				05/23/22 11:13	05/23/22 19:53	
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/24/22 11:05	•
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	73.7		49.9		mg/Kg		<u>.</u>	05/24/22 09:21	
Mothod: 901EP NM Discal Part									
wethou, ou loo NW - Diesel Kang	ge Organics (Di	RO) (GC)							
_		RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Gasoline Range Organics				MDL	Unit mg/Kg	<u>D</u>	Prepared 05/23/22 08:24	Analyzed 05/23/22 18:25	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier		MDL		<u>D</u>	<u>.</u>		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 73.7	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	05/23/22 08:24	05/23/22 18:25	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	73.7 <49.9	Qualifier U U	49.9	MDL	mg/Kg	<u>D</u>	05/23/22 08:24 05/23/22 08:24	05/23/22 18:25 05/23/22 18:25	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 73.7 <49.9 <49.9	Qualifier U U	49.9 49.9 49.9	MDL	mg/Kg	<u> </u>	05/23/22 08:24 05/23/22 08:24 05/23/22 08:24	05/23/22 18:25 05/23/22 18:25 05/23/22 18:25	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U	49.9 49.9 49.9 <i>Limits</i>	MDL	mg/Kg	<u> </u>	05/23/22 08:24 05/23/22 08:24 05/23/22 08:24 Prepared	05/23/22 18:25 05/23/22 18:25 05/23/22 18:25 Analyzed	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	Result 73.7 <49.9 <49.9 <80.9 %Recovery 105 118	Qualifier U U Qualifier	49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg	<u> </u>	05/23/22 08:24 05/23/22 08:24 05/23/22 08:24 Prepared 05/23/22 08:24	05/23/22 18:25 05/23/22 18:25 05/23/22 18:25 Analyzed 05/23/22 18:25	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/23/22 08:24 05/23/22 08:24 05/23/22 08:24 Prepared 05/23/22 08:24	05/23/22 18:25 05/23/22 18:25 05/23/22 18:25 Analyzed 05/23/22 18:25	Dil Fa

Matrix: Solid

Lab Sample ID: 890-2326-6

Client Sample Results

Client: Ensolum Job ID: 890-2326-1
Project/Site: Pecos Federal #001Y SDG: 03A1987014

Client Sample ID: PH17

Date Collected: 05/18/22 11:40 Date Received: 05/19/22 16:12

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/23/22 11:13	05/23/22 20:13	
Toluene	< 0.00199	U	0.00199		mg/Kg		05/23/22 11:13	05/23/22 20:13	•
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		05/23/22 11:13	05/23/22 20:13	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/23/22 11:13	05/23/22 20:13	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		05/23/22 11:13	05/23/22 20:13	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/23/22 11:13	05/23/22 20:13	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	114		70 - 130				05/23/22 11:13	05/23/22 20:13	
1,4-Difluorobenzene (Surr)	94		70 - 130				05/23/22 11:13	05/23/22 20:13	1
- Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/24/22 11:05	•
Method: 8015 NM - Diesel Range Analyte		O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/24/22 09:21	-
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		05/24/22 08:22	05/24/22 17:50	,
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		05/24/22 08:22	05/24/22 17:50	,
,			40.0		mg/Kg		05/24/22 08:22	05/24/22 17:50	
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/rtg				•
Oll Range Organics (Over C28-C36) Surrogate	<49.9 %Recovery		49.9 Limits		9/1.19		Prepared	Analyzed	Dil Fa
Surrogate							Prepared 05/24/22 08:22	Analyzed 05/24/22 17:50	
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery		Limits		g.r.tg				
Surrogate 1-Chlorooctane		Qualifier	Limits 70 - 130		9/1.9		05/24/22 08:22	05/24/22 17:50	
Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 113 106 omatography -	Qualifier	Limits 70 - 130	MDL	Unit	D	05/24/22 08:22	05/24/22 17:50	

Surrogate Summary

Client: Ensolum Job ID: 890-2326-1
Project/Site: Pecos Federal #001Y SDG: 03A1987014

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acce
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2323-A-1-E MS	Matrix Spike	118	91	
890-2323-A-1-F MSD	Matrix Spike Duplicate	110	95	
890-2326-1	PH15	111	98	
890-2326-2	PH15	111	96	
890-2326-3	PH16	110	96	
890-2326-4	PH16	110	93	
890-2326-5	PH17	115	96	
890-2326-6	PH17	114	94	
LCS 880-26086/1-A	Lab Control Sample	108	92	
LCSD 880-26086/2-A	Lab Control Sample Dup	113	90	
MB 880-26086/5-A	Method Blank	107	89	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
30-15067-A-21-C MS	Matrix Spike	88	75	
0-15067-A-21-D MSD	Matrix Spike Duplicate	100	85	
0-2323-A-2-B MS	Matrix Spike	101	102	
0-2323-A-2-C MSD	Matrix Spike Duplicate	93	93	
0-2326-1	PH15	100	110	
00-2326-2	PH15	101	110	
0-2326-3	PH16	102	109	
0-2326-4	PH16	89	94	
0-2326-5	PH17	105	118	
0-2326-6	PH17	113	106	
S 880-26028/2-A	Lab Control Sample	103	107	
CS 880-26124/2-A	Lab Control Sample	147 S1+	127	
CSD 880-26028/3-A	Lab Control Sample Dup	109	113	
CSD 880-26124/3-A	Lab Control Sample Dup	115	102	
IB 880-26028/1-A	Method Blank	107	122	
B 880-26124/1-A	Method Blank	122	119	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Carlsbad

2

5

10

13

- 1

Client: Ensolum Job ID: 890-2326-1 Project/Site: Pecos Federal #001Y SDG: 03A1987014

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-26086/5-A

Lab Sample ID: LCS 880-26086/1-A

Matrix: Solid

Analysis Batch: 26017

Matrix: Solid

Analysis Batch: 26017 MD MD

Client Sa	mple I	D: Me	thod	В	lan	ık
	_	_	_	4		

Prep Type: Total/NA

Prep Batch: 26086

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 11:13	05/23/22 12:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 11:13	05/23/22 12:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 11:13	05/23/22 12:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/23/22 11:13	05/23/22 12:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 11:13	05/23/22 12:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/23/22 11:13	05/23/22 12:40	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	d Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	05/23/22 11	05/23/22 12:40) 1
1,4-Difluorobenzene (Surr)	89		70 - 130	05/23/22 11	:13 05/23/22 12:40) 1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26086

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.07806 mg/Kg 78 70 - 130 Toluene 0.100 0.09288 mg/Kg 93 70 - 130 Ethylbenzene 0.100 0.09738 mg/Kg 97 70 - 130 70 - 130 0.200 m-Xylene & p-Xylene 0.2011 mg/Kg 101 0.100 o-Xylene 0.1007 mg/Kg 101 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Lab Sample ID: LCSD 880-26086/2-A

Analysis Batch: 26017

Prep Type: Total/NA Prep Batch: 26086

RPD
Limit
35
35
35
35
35
0 3 4 5

LCSD LCSD

<0.00201 U

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	113		70 - 130		
1.4-Difluorobenzene (Surr)	90		70 - 130		

Lab Sample ID: 890-2323-A-1-E MS

Matrix: Solid

Toluene

Analysis Batch: 26017

Client Sample ID: Matrix Spike Prep Type: Total/NA

70 - 130

85

Prep Batch: 26086

Sample Sample Spike MS MS Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits <0.00201 U 0.101 0.07463 74 Benzene mg/Kg 70 - 130

0.101

Eurofins Carlsbad

0.08606

mg/Kg

Job ID: 890-2326-1 Client: Ensolum Project/Site: Pecos Federal #001Y SDG: 03A1987014

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2323-A-1-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 26017

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00201	U	0.101	0.08076		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.202	0.1659		mg/Kg		82	70 - 130
o-Xylene	<0.00201	U	0.101	0.08089		mg/Kg		80	70 - 130

MS MS

Surrogate	%Recovery Quali	ifier Limits
4-Bromofluorobenzene (Surr)	118	70 - 130
1,4-Difluorobenzene (Surr)	91	70 - 130

Lab Sample ID: 890-2323-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 26017

Prep Type: Total/NA Prep Batch: 26086

Prep Batch: 26086

Sample Sample Spike MSD MSD RPD Result Qualifier Added RPD Limit Analyte Result Qualifier Unit %Rec Limits Benzene <0.00201 U 0.0990 0.07739 mg/Kg 78 70 - 130 4 35 Toluene <0.00201 U 0.0990 0.08395 mg/Kg 85 70 - 130 2 35 Ethylbenzene <0.00201 U 0.0990 0.07464 75 70 - 130 8 35 mg/Kg 0.198 35 m-Xylene & p-Xylene <0.00402 U 0.1500 mg/Kg 76 70 - 130 10 <0.00201 U 0.0990 0.07520 76 70 - 130 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-26028/1-A Client Sample ID: Method Blank **Matrix: Solid**

Analysis Batch: 26024

Prep Type: Total/NA Prep Batch: 26028

MB MB Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Analyte 50.0 05/23/22 08:23 05/23/22 09:53 <50.0 U Gasoline Range Organics mg/Kg (GRO)-C6-C10 05/23/22 08:23 05/23/22 09:53 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 05/23/22 08:23 05/23/22 09:53 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	05/23/22 08:23	05/23/22 09:53	1
o-Terphenyl	122		70 - 130	05/23/22 08:23	05/23/22 09:53	1

Lab Sample ID: LCS 880-26028/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 26024

Prep Type: Total/NA

Prep Batch: 26028

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	888.2		mg/Kg		89	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	800.7		mg/Kg		80	70 - 130	
C10 C28)								

Project/Site: Pecos Federal #001Y

Client: Ensolum

Job ID: 890-2326-1 SDG: 03A1987014

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-26028/2-A

Matrix: Solid

Analysis Batch: 26024

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26028

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 103 70 - 130 o-Terphenyl 107 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26028

Lab Sample ID: LCSD 880-26028/3-A **Matrix: Solid** Analysis Batch: 26024

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 908.6 91 70 - 1302 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 914.8 91 mg/Kg 70 - 13013 20

C10-C28)

Matrix: Solid

Analysis Batch: 26024

LCSD LCSD

Surrogate %Recovery Qualifier Limits 109 70 - 130 1-Chlorooctane 113 70 - 130 o-Terphenyl

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 26028

MS MS Sample Sample Spike Result Qualifier Analyte Result Qualifier Added Unit D %Rec Limits Gasoline Range Organics <50.0 U F1 F2 1000 1466 F1 mg/Kg 144 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 1000 948.2 mg/Kg 95 70 - 130

C10-C28)

MS MS

%Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 101 o-Terphenyl 102 70 - 130

Lab Sample ID: 890-2323-A-2-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Lab Sample ID: 890-2323-A-2-B MS

Analysis Batch: 26024

Prep Type: Total/NA

Prep Batch: 26028

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit U F1 F2 999 1176 F2 Gasoline Range Organics <50.0 116 70 - 130 22 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 999 871.0 mg/Kg 87 70 - 130 8 20

C10-C28)

MSD MSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 93 70 - 130 93 70 - 130 o-Terphenyl

Client: Ensolum Job ID: 890-2326-1 SDG: 03A1987014 Project/Site: Pecos Federal #001Y

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-26124/1-A

Lab Sample ID: LCS 880-26124/2-A

Matrix: Solid

Analysis Batch: 26134

Matrix: Solid Analysis Batch: 26134

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 26124

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		05/24/22 08:22	05/24/22 10:11	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		05/24/22 08:22	05/24/22 10:11	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/24/22 08:22	05/24/22 10:11	1
	MR	MR							

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	05/24/22 08:22	05/24/22 10:11	1
o-Terphenyl	119		70 - 130	05/24/22 08:22	05/24/22 10:11	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26124

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1118		mg/Kg	<u> </u>	112	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	972.6		mg/Kg		97	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	147	S1+	70 - 130
o-Terphenyl	127		70 - 130

Lab Sample ID: LCSD 880-26124/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 26134

Prep Type: Total/NA

Prep Batch: 26124

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	814.5	*1	mg/Kg		81	70 - 130	31	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	776.9	*1	mg/Kg		78	70 - 130	22	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: 880-15067-A-21-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 26134

Prep Type: Total/NA Prep Batch: 26124

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	55.3	*1	1000	778.9		mg/Kg		72	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U *1	1000	799.3		mg/Kg		78	70 - 130	
C10-C28)										

Client: Ensolum Job ID: 890-2326-1
Project/Site: Pecos Federal #001Y SDG: 03A1987014

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

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Lab Sample ID: 880-15067-A-21-C MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 26134 Prep Batch: 26124

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 88
 70 - 130

Lab Sample ID: 880-15067-A-21-D MSD

Client Sample ID: Matrix Spike Duplicate

70 - 130

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 26134 Prep Batch: 26124

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 55.3 *1 999 925.3 87 70 - 13017 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 999 906.2 <50.0 U *1 mg/Kg 89 70 - 13020 13 C10-C28) MSD MSD

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 100
 70 - 130

 o-Terphenyl
 85
 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-26084/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 26199

o-Terphenyl

 Analyte
 Result Chloride
 Qualifier
 RL St.00
 MDL Unit Unit D MDKg
 D Prepared Prepared Prepared St.00
 Analyzed Dil Fac D St.00
 Dil Fac D St.00
 Mg/Kg
 05/25/22 04:55
 1

Lab Sample ID: LCS 880-26084/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 26199

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 247.4 mg/Kg 99 90 - 110

Lab Sample ID: LCSD 880-26084/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 26199

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 255.6 102 90 - 110 20 mg/Kg

Lab Sample ID: 890-2326-1 MS Client Sample ID: PH15

Matrix: Solid
Analysis Batch: 26199

Sample Sample Spike MS MS %Rec

Analyte Result Qualifier Added Result Qualifier %Rec Limits Unit F1 5050 Chloride 8780 15820 F1 mg/Kg 139 90 - 110

Client: Ensolum Job ID: 890-2326-1 Project/Site: Pecos Federal #001Y

SDG: 03A1987014

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2326-1 MSD **Client Sample ID: PH15 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 26199

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	8780	F1	5050	16220	F1	mg/Kg		147	90 - 110	2	20

Client: Ensolum

Job ID: 890-2326-1 Project/Site: Pecos Federal #001Y SDG: 03A1987014

GC VOA

Analysis Batch: 26017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2326-1	PH15	Total/NA	Solid	8021B	26086
890-2326-2	PH15	Total/NA	Solid	8021B	26086
890-2326-3	PH16	Total/NA	Solid	8021B	26086
890-2326-4	PH16	Total/NA	Solid	8021B	26086
890-2326-5	PH17	Total/NA	Solid	8021B	26086
890-2326-6	PH17	Total/NA	Solid	8021B	26086
MB 880-26086/5-A	Method Blank	Total/NA	Solid	8021B	26086
LCS 880-26086/1-A	Lab Control Sample	Total/NA	Solid	8021B	26086
LCSD 880-26086/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26086
890-2323-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	26086
890-2323-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	26086

Prep Batch: 26086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2326-1	PH15	Total/NA	Solid	5035	
890-2326-2	PH15	Total/NA	Solid	5035	
890-2326-3	PH16	Total/NA	Solid	5035	
890-2326-4	PH16	Total/NA	Solid	5035	
890-2326-5	PH17	Total/NA	Solid	5035	
890-2326-6	PH17	Total/NA	Solid	5035	
MB 880-26086/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-26086/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-26086/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2323-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-2323-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 26172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2326-1	PH15	Total/NA	Solid	Total BTEX	- <u> </u>
890-2326-2	PH15	Total/NA	Solid	Total BTEX	
890-2326-3	PH16	Total/NA	Solid	Total BTEX	
890-2326-4	PH16	Total/NA	Solid	Total BTEX	
890-2326-5	PH17	Total/NA	Solid	Total BTEX	
890-2326-6	PH17	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 26024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2326-1	PH15	Total/NA	Solid	8015B NM	26028
890-2326-2	PH15	Total/NA	Solid	8015B NM	26028
890-2326-3	PH16	Total/NA	Solid	8015B NM	26028
890-2326-4	PH16	Total/NA	Solid	8015B NM	26028
890-2326-5	PH17	Total/NA	Solid	8015B NM	26028
MB 880-26028/1-A	Method Blank	Total/NA	Solid	8015B NM	26028
LCS 880-26028/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26028
LCSD 880-26028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26028
890-2323-A-2-B MS	Matrix Spike	Total/NA	Solid	8015B NM	26028
890-2323-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	26028

Client: Ensolum

Project/Site: Pecos Federal #001Y

Job ID: 890-2326-1 SDG: 03A1987014

GC Semi VOA

Prep Batch: 26028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2326-1	PH15	Total/NA	Solid	8015NM Prep	
890-2326-2	PH15	Total/NA	Solid	8015NM Prep	
890-2326-3	PH16	Total/NA	Solid	8015NM Prep	
890-2326-4	PH16	Total/NA	Solid	8015NM Prep	
890-2326-5	PH17	Total/NA	Solid	8015NM Prep	
MB 880-26028/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26028/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2323-A-2-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2323-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 26124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2326-6	PH17	Total/NA	Solid	8015NM Prep	
MB 880-26124/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26124/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26124/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-15067-A-21-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-15067-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 26130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2326-1	PH15	Total/NA	Solid	8015 NM	<u> </u>
890-2326-2	PH15	Total/NA	Solid	8015 NM	
890-2326-3	PH16	Total/NA	Solid	8015 NM	
890-2326-4	PH16	Total/NA	Solid	8015 NM	
890-2326-5	PH17	Total/NA	Solid	8015 NM	
890-2326-6	PH17	Total/NA	Solid	8015 NM	

Analysis Batch: 26134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2326-6	PH17	Total/NA	Solid	8015B NM	26124
MB 880-26124/1-A	Method Blank	Total/NA	Solid	8015B NM	26124
LCS 880-26124/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26124
LCSD 880-26124/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26124
880-15067-A-21-C MS	Matrix Spike	Total/NA	Solid	8015B NM	26124
880-15067-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	26124

HPLC/IC

Leach Batch: 26084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2326-1	PH15	Soluble	Solid	DI Leach	
890-2326-2	PH15	Soluble	Solid	DI Leach	
890-2326-3	PH16	Soluble	Solid	DI Leach	
890-2326-4	PH16	Soluble	Solid	DI Leach	
890-2326-5	PH17	Soluble	Solid	DI Leach	
890-2326-6	PH17	Soluble	Solid	DI Leach	
MB 880-26084/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-26084/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-26084/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Client: Ensolum Job ID: 890-2326-1 Project/Site: Pecos Federal #001Y SDG: 03A1987014

HPLC/IC (Continued)

Leach Batch: 26084 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2326-1 MS	PH15	Soluble	Solid	DI Leach	
890-2326-1 MSD	PH15	Soluble	Solid	DI Leach	

Analysis Batch: 26199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2326-1	PH15	Soluble	Solid	300.0	26084
890-2326-2	PH15	Soluble	Solid	300.0	26084
890-2326-3	PH16	Soluble	Solid	300.0	26084
890-2326-4	PH16	Soluble	Solid	300.0	26084
890-2326-5	PH17	Soluble	Solid	300.0	26084
890-2326-6	PH17	Soluble	Solid	300.0	26084
MB 880-26084/1-A	Method Blank	Soluble	Solid	300.0	26084
LCS 880-26084/2-A	Lab Control Sample	Soluble	Solid	300.0	26084
LCSD 880-26084/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	26084
890-2326-1 MS	PH15	Soluble	Solid	300.0	26084
890-2326-1 MSD	PH15	Soluble	Solid	300.0	26084

Project/Site: Pecos Federal #001Y

Job ID: 890-2326-1 SDG: 03A1987014

Lab Sample ID: 890-2326-1

Matrix: Solid

Client Sample ID: PH15 Date Collected: 05/18/22 11:15 Date Received: 05/19/22 16:12

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	26086	05/23/22 11:13	MR	XEN MID
Total/NA	Analysis	8021B		1			26017	05/23/22 18:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26172	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26130	05/24/22 09:21	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26028	05/23/22 08:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26024	05/23/22 16:59	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	26084	05/23/22 11:02	SC	XEN MID
Soluble	Analysis	300.0		20			26199	05/25/22 07:32	CH	XEN MID

Client Sample ID: PH15 Lab Sample ID: 890-2326-2 Matrix: Solid

Date Collected: 05/18/22 11:20 Date Received: 05/19/22 16:12

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	26086	05/23/22 11:13	MR	XEN MID
Total/NA	Analysis	8021B		1			26017	05/23/22 18:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26172	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26130	05/24/22 09:21	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26028	05/23/22 08:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26024	05/23/22 17:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26084	05/23/22 11:02	SC	XEN MID
Soluble	Analysis	300.0		5			26199	05/25/22 08:00	CH	XEN MID

Client Sample ID: PH16 Lab Sample ID: 890-2326-3

Date Collected: 05/18/22 11:25 **Matrix: Solid** Date Received: 05/19/22 16:12

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	26086	05/23/22 11:13	MR	XEN MID
Total/NA	Analysis	8021B		1			26017	05/23/22 19:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26172	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26130	05/24/22 09:21	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26028	05/23/22 08:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26024	05/23/22 17:42	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	26084	05/23/22 11:02	SC	XEN MID
Soluble	Analysis	300.0		20			26199	05/25/22 08:09	CH	XEN MID

Client Sample ID: PH16 Lab Sample ID: 890-2326-4 Date Collected: 05/18/22 11:30

Date Received: 05/19/22 16:12

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	26086	05/23/22 11:13	MR	XEN MID
Total/NA	Analysis	8021B		1			26017	05/23/22 19:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26172	05/24/22 11:05	SM	XEN MID

Eurofins Carlsbad

Matrix: Solid

Lab Chronicle

Client: Ensolum

Project/Site: Pecos Federal #001Y

SDG: 03A1987014

Client Sample ID: PH16

Date Collected: 05/18/22 11:30 Date Received: 05/19/22 16:12 Lab Sample ID: 890-2326-4

Matrix: Solid

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			26130	05/24/22 09:21	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26028	05/23/22 08:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26024	05/23/22 18:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	26084	05/23/22 11:02	SC	XEN MID
Soluble	Analysis	300.0		5			26199	05/25/22 08:36	CH	XEN MID

Client Sample ID: PH17 Lab Sample ID: 890-2326-5

Date Collected: 05/18/22 11:35 Date Received: 05/19/22 16:12

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Amount Number or Analyzed Type Run Factor Analyst Lab 26086 5035 Total/NA Prep 5.01 g 5 mL 05/23/22 11:13 MR XEN MID Total/NA Analysis 8021B 26017 05/23/22 19:53 MR XEN MID 1 Total/NA Total BTEX 26172 XEN MID Analysis 1 05/24/22 11:05 SM Total/NA Analysis 8015 NM 26130 05/24/22 09:21 SM XEN MID Total/NA Prep 8015NM Prep 10.02 g 10 mL 26028 05/23/22 08:24 DM XEN MID Total/NA Analysis 8015B NM 26024 05/23/22 18:25 XEN MID 1 ΑJ Soluble Leach DI Leach 5.05 g 50 mL 26084 05/23/22 11:02 SC XEN MID XEN MID Soluble Analysis 300.0 1 26199 05/25/22 08:46 СН

Client Sample ID: PH17 Lab Sample ID: 890-2326-6

Date Collected: 05/18/22 11:40
Date Received: 05/19/22 16:12

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	26086	05/23/22 11:13	MR	XEN MID
Total/NA	Analysis	8021B		1			26017	05/23/22 20:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26172	05/24/22 11:05	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26130	05/24/22 09:21	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26124	05/24/22 08:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26134	05/24/22 17:50	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26084	05/23/22 11:02	SC	XEN MID
Soluble	Analysis	300.0		1			26199	05/25/22 08:55	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2326-1 Project/Site: Pecos Federal #001Y SDG: 03A1987014

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report, but	it the laboratory is not certific	ed by the governing authority. This list ma	v include analytes for
the agency does not of	• •	it the laboratory is not certain	su by the governing authority. This list his	ay include analytes lo
,	• •	Matrix	Analyte	ay include analytes for
the agency does not of	fer certification.	,	, , ,	ay include analytes lo

Project/Site: Pecos Federal #001Y

Method Summary

Client: Ensolum

Job ID: 890-2326-1

SDG: 03A1987014

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Sample Summary

Client: Ensolum

Project/Site: Pecos Federal #001Y

Job ID: 890-2326-1 SDG: 03A1987014

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2326-1	PH15	Solid	05/18/22 11:15	05/19/22 16:12	0.5
890-2326-2	PH15	Solid	05/18/22 11:20	05/19/22 16:12	1
890-2326-3	PH16	Solid	05/18/22 11:25	05/19/22 16:12	0.5
890-2326-4	PH16	Solid	05/18/22 11:30	05/19/22 16:12	1
890-2326-5	PH17	Solid	05/18/22 11:35	05/19/22 16:12	0.5
890-2326-6	PH17	Solid	05/18/22 11:40	05/19/22 16:12	1

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Chain of Custody

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Work Order No:

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Date/Time	Received by: (Signature)	Relinquished by: (Signature)	ne	/Date/Time		Æ.	Receixeday: (şigneture	Receixed		(Signature)	Relinquished by: (Signature)
	terms will be enforced unless previously negotiated.	ordice: Signature of this document and reiniquishment of samples constitutes a valid purchase order from citent company to Euronia Aerico, its artiliates and subcontractors, it assume of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due of Eurofins Xenco. A minimum charge of \$86.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be	expenses income Xenoral Eurofins Xe	ny losses or submitted t	ty for ar	e any responsibil ge of \$5 for each	shall not assume	of samples and oplied to each p	or the cost 00 will be a	ocument and relinque will be liable only for mum charge of \$85.0	ervice. Eurofins Xence. Eurofins Xenco. A mini
Ag SiO ₂ Na Sr II Sn 0 V ZII Hg: 1631 / 245.1 / 7470 / 7471	Mo Ni Se Ag Ti U Hg: 1631 / 245.	Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni (Ba Be B	Sb As E	1 ≱ CRA	CRA 13PPM Texas 11 AITCLP / SPLP 6010: 8RCRA	8RCRA 13PPM TCLP / SPLP	88	6020: e analyze	d Metal(s) to be ana	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed
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Incident ID			×	×		0.5' Corpo	11:15 0	5.18.22	S	01	PH15
Sample Comments			CHLOF	BTEX -	# of Cont	Depth Comp	Time Sampled	Date Sampled	Matrix	tification	Sample Identification
NaOH+Ascorbic Acid: SAFC	Nac		-			0.8	emperature:	Corrected Temperature:			Total Containers:
Zn Acetate+NaOH: Zn			_	_		1.0	Reading:	Temperature Reading:	O (NIA)	ls: Yes No	Sample Custody Seals:
Na ₂ S ₂ O ₃ : NaSO ₃	Chain of Custody Na ₂ :	890-2326 Chain of	_		Pa	~		Correction Factor:	NIA	: Yes No	Cooler Custody Seals:
NaHSO ₄ : NABIS	Nat				ran	00-VN:		Thermometer ID:	No	tact: (Yes)	Samples Received Intact:
H ₃ PO ₄ : HP	H ₃ P		-	-	nete	Yes No	Wet Ice:		Blank:	Temp Blank:	SAMPLE RECEIPT
H ₂ SO ₄ : H ₂ NaOH: Na	H ₂ S			_	rs	ved by 4:30pm	the lab, if received by 4:30pm $\frac{1}{2}$	1061084	CC: 1061183501	CC: 1ı	PO#:
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<u>_</u>	Coo					5 Day TAT	Due Date:		Rural Eddy	Ru	Project Location:
None: NO DI Water: H ₂ O	Non				Code	Rush	☑ Routine		03A1987014	03A	Project Number:
Preservative Codes	ST	ANALYSIS REQUEST				Turn Around	Turn /	014	ederal #0	Pecos Federal #001Y	Project Name:
Other:	Deliverables: EDD 🔲 ADaPT 🚨		ensolum.c	bbelill@	n.com,	Email: jim.raley@dvn.com, bbelill@ensolum.com	Email: ji			989-854-0852	Phone:
T L TRRP L Level IV L	Reporting: Level II Level III L PST/UST L TRRP L		Carlsbad, NM 88220	Carlsbac		City, State ZIP:	0		88220	Carlsbad, NM 88220	City, State ZIP:
	State of Project:		5315 Buena Vista Dr.	5315 Bu		Address:	P	vy	Parks Hv	3122 National Parks Hwy	Address:
Is RRC Superfund	Program: UST/PST ☐ PRP☐ Brownfields ☐		Devon Energy Corporation	Devon E	œ.	Company Name:	0			Ensolum, LLC.	Company Name:
	WOLK Older Collinging		y	Jim Raley	nt)	Bill to: (if different)	E			Ben Belill	Project Manager:

Phone. 575-988-3199 Fax 575-988-3199

1089 N Canal St. Carlsbad, NM 88220 1

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Chain of Custody Record

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Environment Testing
America

PH15 (890-2326-1) Vote Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the aboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC. PH16 (890-2326-3) Midland Deliverable Requested 1 II III IV Other (specify) PH17 (890-2326-6) PH17 (890-2326-5) PH16 (890-2326-4) PH15 (890-2326-2) Sample Identification - Client ID (Lab ID 132-704-5440(Tel) TX 79701 State Zip Shipping/Receiving Client Information ecos Federal #001Y 211 W Florida Ave Sulful Polytics ossible Hazard Identification elinguished by: mpty Kit Relinquished by urofins Environment Testing South Centr nconfirmed (Sub Contract Lab) Custody Seal No S 66.00 Primary Deliverable Rank 89000084 #OM Due Date Requested. Phone Date/Time Date/Time: TAT Requested (days): 5/25/2022 Sample Date 5/18/22 5/18/22 5/18/22 5/18/22 5/18/22 5/18/22 Date Mountain 11 25 Mountain 11 40 Mountain 11 35 Mountain 11 30 Mountain 11 20 Mountair 11 15 G=grab) (C=comp, Sample Preservation Code: Type Company Company Company Matrix Solid Solid Solid Solid Solid Solid Jessica Kramer@et.eurofinsus com Kramer Ime Field Filtered Sample (Yes or No) NELAP - Texas ccreditations Required (See note): Jessica Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Received by × × × × × × 8015MOD_Calc Cooler Temperature(s) °C and Other Remarks Return To Client × × × × × 8016MOD_NM/8016NM_S_Prep Full TPH × × 300 ORGFM 28D/DI LEACH Chloride × × × × × × × 8021B/5035FP_Calc BTEX × × × × Analysis Requested × × Total BTEX GC\ × × × × Disposal By Lab New Mexico Carrier Tracking No(s): State of Origin hod of Shipment \mathcal{O} Date/Time QJ Š Archive For A STATE OF THE STA **Total Number of containers** G Amchlor H Ascorbic Acid COC No 890-764 1 шшоош⊳ Preservation Page 1 of 1 I Ice
J DI Water
< EDTA
. EDA 890-2326-1 Nitric Acid NaHSO4 MeOH NaOH 단 Special Instructions/Note S J W Z D DOZZ Company Company Ver: 06/08/2021 M Hexane
V None
O AsNaO2
AsNaO2
AsNaO3
AsNaSSO3
R NaSSSO3
R NaSSSO3
R H2SO4
T TSP Dodecahydrate
J Acetone
J MCAA
W pH 4-5
W MCAA
W pH 4-5
W Triama
Other (specify) Months

5/25/2022

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2326-1

SDG Number: 03A1987014

Login Number: 2326 List Source: Eurofins Carlsbad

List Number: 1

Creator: Olivas, Nathaniel

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

C 103 0j 337

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2326-1 SDG Number: 03A1987014

Login Number: 2326 **List Source: Eurofins Midland** List Number: 2 List Creation: 05/23/22 08:18 AM

Creator: Kramer, Jessica

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1/1.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4") .	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Devon Team Ensolum 705 W. Wadley Suite 210 Midland Texas 79701

Generated 11/22/2022 3:23:06 PM

JOB DESCRIPTION

Pecos Fed 1Y SDG NUMBER Eddy County NM

JOB NUMBER

890-3434-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Client: Ensolum
Project/Site: Pecos Fed 1Y
Laboratory Job ID: 890-3434-1
SDG: Eddy County NM

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Definitions/Glossary

Job ID: 890-3434-1 Client: Ensolum Project/Site: Pecos Fed 1Y SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier **Qualifier Description**

S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) Most Probable Number MPN Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NFG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1 SDG: Eddy County NM

Job ID: 890-3434-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3434-1

Receipt

The samples were received on 11/11/2022 10:04 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH11 (890-3434-1), PH11 (890-3434-2), PH16 (890-3434-3), PH16 (890-3434-4), PH16 (890-3434-5), PH18 (890-3434-6), PH18 (890-3434-7), PH18 (890-3434-8) and PH18 (890-3434-9).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: PH11 (890-3434-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Lab Sample ID: 890-3434-1

Client Sample Results

Client: Ensolum Job ID: 890-3434-1
Project/Site: Pecos Fed 1Y SDG: Eddy County NM

Client Sample ID: PH11

Date Collected: 11/10/22 09:10 Date Received: 11/11/22 10:04

Sample Depth: 4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 03:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 03:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 03:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/14/22 15:47	11/22/22 03:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 03:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/14/22 15:47	11/22/22 03:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				11/14/22 15:47	11/22/22 03:32	1
1,4-Difluorobenzene (Surr)	136	S1+	70 - 130				11/14/22 15:47	11/22/22 03:32	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/22/22 15:30	1
Method: SW846 8015 NM - Diese	•		•						
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	
	•	Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/15/22 16:29	
Analyte	Result <50.0	Qualifier U	RL 50.0	MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0 sel Range Orga	Qualifier U	RL 50.0	MDL	mg/Kg	<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 50.0		mg/Kg	=		11/15/22 16:29	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 50.0		mg/Kg	=	Prepared	11/15/22 16:29 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0 sel Range Orga Result <50.0	Qualifier U nics (DRO) Qualifier U	(GC) RL 50.0		mg/Kg Unit mg/Kg	=	Prepared 11/14/22 14:27	11/15/22 16:29 Analyzed 11/15/22 14:59	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/14/22 14:27 11/14/22 14:27	Analyzed 11/15/22 14:59 11/15/22 14:59	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/14/22 14:27 11/14/22 14:27 11/14/22 14:27	Analyzed 11/15/22 14:59 11/15/22 14:59 11/15/22 14:59	Dil Face 1 Dil Face 1 Dil Face
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/14/22 14:27 11/14/22 14:27 11/14/22 14:27 Prepared	Analyzed 11/15/22 16:29 Analyzed 11/15/22 14:59 11/15/22 14:59 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/14/22 14:27 11/14/22 14:27 11/14/22 14:27 Prepared 11/14/22 14:27	Analyzed 11/15/22 14:59 11/15/22 14:59 11/15/22 14:59 Analyzed 11/15/22 14:59	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg	=	Prepared 11/14/22 14:27 11/14/22 14:27 11/14/22 14:27 Prepared 11/14/22 14:27	Analyzed 11/15/22 14:59 11/15/22 14:59 11/15/22 14:59 Analyzed 11/15/22 14:59	Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: PH11

4-Bromofluorobenzene (Surr)

Date Collected: 11/10/22 09:20 Date Received: 11/11/22 10:04

Sample Depth: 8'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 03:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 03:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 03:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/14/22 15:47	11/22/22 03:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 03:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 15:47	11/22/22 03:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

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Matrix: Solid

Lab Sample ID: 890-3434-2

11/22/22 03:53

11/14/22 15:47

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Client Sample Results

Job ID: 890-3434-1 Client: Ensolum Project/Site: Pecos Fed 1Y SDG: Eddy County NM

Client Sample ID: PH11

Date Collected: 11/10/22 09:20 Date Received: 11/11/22 10:04

Sample Depth: 8'

Lab Sample ID: 890-3434-2

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 70 - 130 11/14/22 15:47 1,4-Difluorobenzene (Surr) 129 11/22/22 03:53

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00398 0.00398 11/22/22 15:30 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <49.9 49.9 11/16/22 09:14 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac <49.9 U mg/Kg 11/15/22 16:05 Gasoline Range Organics 49.9 11/14/22 14:27 (GRO)-C6-C10 <49.9 U 49.9 11/14/22 14:27 11/15/22 16:05 Diesel Range Organics (Over mg/Kg C10-C28) OII Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 11/14/22 14:27 11/15/22 16:05

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 94 70 - 130 o-Terphenyl 93 70 - 130

Prepared Analyzed Dil Fac 11/14/22 14:27 11/15/22 16:05 11/14/22 14:27 11/15/22 16:05

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 4.97 11/16/22 02:46 Chloride 204 mg/Kg

Lab Sample ID: 890-3434-3 Client Sample ID: PH16

Date Collected: 11/10/22 09:40 Date Received: 11/11/22 10:04

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00199 U 0.00199 mg/Kg 11/14/22 15:47 11/22/22 04:13 Toluene <0.00199 U 0.00199 11/14/22 15:47 11/22/22 04:13 mg/Kg Ethylbenzene <0.00199 U 0.00199 11/14/22 15:47 11/22/22 04:13 mg/Kg 11/14/22 15:47 11/22/22 04:13 m-Xylene & p-Xylene <0.00398 U 0.00398 mg/Kg o-Xylene <0.00199 U 0.00199 mg/Kg 11/14/22 15:47 11/22/22 04:13 Xylenes, Total <0.00398 U 0.00398 mg/Kg 11/14/22 15:47 11/22/22 04:13 %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed

116 70 - 130 4-Bromofluorobenzene (Surr) 11/14/22 15:47 11/22/22 04:13 1,4-Difluorobenzene (Surr) 106 70 - 130 11/14/22 15:47 11/22/22 04:13

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL D Unit Prepared Analyzed Total BTEX <0.00398 0.00398 11/22/22 15:30 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed <50.0 U Total TPH 50.0 11/16/22 09:14 mg/Kg

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Dil Fac

Matrix: Solid

Dil Fac

Released to Imaging: 1/23/2024 10:57:26 AM

Client: Ensolum Job ID: 890-3434-1 Project/Site: Pecos Fed 1Y SDG: Eddy County NM

Da Date Received: 11/11/22 10:04

Sample Depth: 4'

Client Sample ID: PH16	Lab Sample ID: 890-3434-3
Date Collected: 11/10/22 09:40	Matrix: Solid
Oato Boogiyad: 11/11/22 10:04	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/14/22 14:27	11/15/22 16:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/14/22 14:27	11/15/22 16:26	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/14/22 14:27	11/15/22 16:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				11/14/22 14:27	11/15/22 16:26	1
o-Terphenyl	88		70 - 130				11/14/22 14:27	11/15/22 16:26	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy - S	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: PH16 Lab Sample ID: 890-3434-4 Matrix: Solid

5.01

mg/Kg

211

Date Collected: 11/10/22 09:50 Date Received: 11/11/22 10:04

Sample Depth: 6'

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 04:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 04:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 04:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/14/22 15:47	11/22/22 04:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 04:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/14/22 15:47	11/22/22 04:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				11/14/22 15:47	11/22/22 04:34	1
1,4-Difluorobenzene (Surr)	108		70 - 130				11/14/22 15:47	11/22/22 04:34	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/22/22 15:30	1
Method: SW846 8015 NM - Diese	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/16/22 09:14	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/14/22 14:27	11/15/22 16:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/14/22 14:27	11/15/22 16:47	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/14/22 14:27	11/15/22 16:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				11/14/22 14:27	11/15/22 16:47	1
o-Terphenyl	88		70 - 130				11/14/22 14:27	11/15/22 16:47	1

Eurofins Carlsbad

11/16/22 02:51

Client Sample Results

Client: Ensolum Job ID: 890-3434-1 Project/Site: Pecos Fed 1Y SDG: Eddy County NM

Client Sample ID: PH16

Date Received: 11/11/22 10:04

Lab Sample ID: 890-3434-4 Date Collected: 11/10/22 09:50

Matrix: Solid

Sample Depth: 6'

Method: MCAWW 300.0 - Anions, lo	n Chromato	graphy - Solu	uble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	424		4.98		mg/Kg			11/16/22 02:57	1

Client Sample ID: PH16 Lab Sample ID: 890-3434-5

Date Collected: 11/10/22 10:00 Date Received: 11/11/22 10:04

Matrix: Solid

Sample Depth: 8'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/14/22 15:47	11/22/22 04:54	
Toluene	<0.00201	U	0.00201		mg/Kg		11/14/22 15:47	11/22/22 04:54	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/14/22 15:47	11/22/22 04:54	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/14/22 15:47	11/22/22 04:54	
o-Xylene	< 0.00201	U	0.00201		mg/Kg		11/14/22 15:47	11/22/22 04:54	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/14/22 15:47	11/22/22 04:54	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130				11/14/22 15:47	11/22/22 04:54	
1,4-Difluorobenzene (Surr)	107		70 - 130				11/14/22 15:47	11/22/22 04:54	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00402	U	0.00402		mg/Kg			11/22/22 15:30	•
Method: SW846 8015 NM - Diese Analyte		Qualifier	GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0								
	<50.0	U	50.0		mg/Kg			11/16/22 09:14	
- -					mg/Kg			11/16/22 09:14	
- -	sel Range Orga			MDL	mg/Kg Unit	D	Prepared	11/16/22 09:14 Analyzed	
Method: SW846 8015B NM - Dies Analyte	sel Range Orga	nics (DRO) Qualifier	(GC)	MDL		D	Prepared 11/14/22 14:27		Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga Result	nics (DRO) Qualifier	(GC)	MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <50.0	nics (DRO) Qualifier U	(GC) RL 50.0	MDL	Unit mg/Kg	<u>D</u>	11/14/22 14:27	Analyzed 11/15/22 17:08	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <50.0	nics (DRO) Qualifier U U	(GC) RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/14/22 14:27	Analyzed 11/15/22 17:08	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <50.0 <50.0	nics (DRO) Qualifier U U	(GC) RL 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/14/22 14:27 11/14/22 14:27 11/14/22 14:27	Analyzed 11/15/22 17:08 11/15/22 17:08 11/15/22 17:08	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	sel Range Orga Result <50.0 <50.0 <50.0 %Recovery	nics (DRO) Qualifier U U	(GC) RL 50.0 50.0 50.0 Limits	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/14/22 14:27 11/14/22 14:27 11/14/22 14:27 Prepared	Analyzed 11/15/22 17:08 11/15/22 17:08 11/15/22 17:08 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Sel Range Orga Result <50.0 <50.0 <50.0 **Recovery 100 99	U Qualifier U Qualifier	(GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/14/22 14:27 11/14/22 14:27 11/14/22 14:27 Prepared 11/14/22 14:27	Analyzed 11/15/22 17:08 11/15/22 17:08 11/15/22 17:08 Analyzed 11/15/22 17:08	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Sel Range Orga Result <50.0 <50.0 <50.0 *Recovery 100 99 5, lon Chromato	U Qualifier U Qualifier	(GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130		Unit mg/Kg mg/Kg	D	11/14/22 14:27 11/14/22 14:27 11/14/22 14:27 Prepared 11/14/22 14:27	Analyzed 11/15/22 17:08 11/15/22 17:08 11/15/22 17:08 Analyzed 11/15/22 17:08	Dil Fac

Lab Sample ID: 890-3434-6

Client: Ensolum

Job ID: 890-3434-1 Project/Site: Pecos Fed 1Y SDG: Eddy County NM

Client Sample ID: PH18

Date Collected: 11/10/22 10:20 Date Received: 11/11/22 10:04

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 05:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 05:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 05:15	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/14/22 15:47	11/22/22 05:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 05:15	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/14/22 15:47	11/22/22 05:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				11/14/22 15:47	11/22/22 05:15	1
1,4-Difluorobenzene (Surr)	108		70 - 130				11/14/22 15:47	11/22/22 05:15	1
Method: TAL SOP Total BTEX	- Total BTEX Cal	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/22/22 15:30	1
- Method: SW846 8015 NM - Dies	sol Pango Organ	ice (DPO) (ec)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH									
างเลเ เพท -	158		50.0		mg/Kg			11/16/22 09:14	1
- ^{***} -		nics (DRO)			mg/Kg			11/16/22 09:14	
Method: SW846 8015B NM - Di Analyte	esel Range Orga	nics (DRO) Qualifier		MDL	mg/Kg Unit		Prepared	11/16/22 09:14 Analyzed	
Method: SW846 8015B NM - Di Analyte Gasoline Range Organics	esel Range Orga	Qualifier	(GC)	MDL		<u>D</u>	Prepared 11/14/22 14:27		1
Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	esel Range Orga Result	Qualifier	(GC)	MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10	esel Range Orga Result <50.0	Qualifier	(GC) RL 50.0	MDL	Unit mg/Kg	<u>D</u>	11/14/22 14:27	Analyzed 11/15/22 17:28	Dil Fac
Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	esel Range Orga Result <50.0	Qualifier U	(GC) RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/14/22 14:27	Analyzed 11/15/22 17:28 11/15/22 17:28	Dil Fac
Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 66.9 90.9	Qualifier U	(GC) RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/14/22 14:27 11/14/22 14:27 11/14/22 14:27	Analyzed 11/15/22 17:28 11/15/22 17:28 11/15/22 17:28	Dil Fac
Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	esel Range Orga Result <50.0 66.9 90.9	Qualifier U	(GC) RL 50.0 50.0 50.0 Limits	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/14/22 14:27 11/14/22 14:27 11/14/22 14:27 Prepared	Analyzed 11/15/22 17:28 11/15/22 17:28 11/15/22 17:28 Analyzed	Dil Fac
Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U	(GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/14/22 14:27 11/14/22 14:27 11/14/22 14:27 Prepared 11/14/22 14:27	Analyzed 11/15/22 17:28 11/15/22 17:28 11/15/22 17:28 Analyzed 11/15/22 17:28	Dil Fac

Client Sample ID: PH18 Lab Sample ID: 890-3434-7 **Matrix: Solid**

50.2

mg/Kg

4080

Date Collected: 11/10/22 10:30 Date Received: 11/11/22 10:04

Sample Depth: 4'

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/14/22 15:47	11/22/22 05:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/14/22 15:47	11/22/22 05:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/14/22 15:47	11/22/22 05:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/14/22 15:47	11/22/22 05:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/14/22 15:47	11/22/22 05:36	1
Xylenes, Total	< 0.00402	U	0.00402		mg/Kg		11/14/22 15:47	11/22/22 05:36	1

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11/16/22 03:19

Lab Sample ID: 890-3434-7

11/22/22 15:30

11/15/22 17:49

11/16/22 03:25

11/14/22 14:27

Client Sample Results

Client: Ensolum Job ID: 890-3434-1 Project/Site: Pecos Fed 1Y SDG: Eddy County NM

Client Sample ID: PH18

Date Collected: 11/10/22 10:30 Date Received: 11/11/22 10:04

Sample Depth: 4'

Total BTEX

Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121	70 - 130	11/14/22 15:47	11/22/22 05:36	1
1,4-Difluorobenzene (Surr)	104	70 - 130	11/14/22 15:47	11/22/22 05:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <49.9 U 49.9 mg/Kg 11/16/22 09:14

0.00402

mg/Kg

mg/Kg

<0.00402 U

86

629

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier MDL Unit D Analyte RLPrepared Analyzed Dil Fac <49.9 U 49.9 11/14/22 14:27 11/15/22 17:49 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg 11/14/22 14:27 11/15/22 17:49 C10-C28) OII Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 11/14/22 14:27 11/15/22 17:49 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac

o-Terphenyl 85 70 - 130 11/14/22 14:27 11/15/22 17:49 Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

70 - 130

Client Sample ID: PH18 Lab Sample ID: 890-3434-8

5.04

Date Collected: 11/10/22 10:40 Date Received: 11/11/22 10:04

Released to Imaging: 1/23/2024 10:57:26 AM

Sample Depth: 6'

1-Chlorooctane

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 05:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 05:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 05:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/14/22 15:47	11/22/22 05:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 05:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 15:47	11/22/22 05:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				11/14/22 15:47	11/22/22 05:56	1
1,4-Difluorobenzene (Surr)	106		70 - 130				11/14/22 15:47	11/22/22 05:56	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	II	0.00398		mg/Kg			11/22/22 15:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac			
Total TPH	<49.9 U	49.9	mg/Kg			11/16/22 09:14	1			

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Matrix: Solid

Lab Sample ID: 890-3434-8

Analyzed

Dil Fac

Matrix: Solid

Job ID: 890-3434-1

Client: Ensolum Project/Site: Pecos Fed 1Y SDG: Eddy County NM

Client Sample ID: PH18

Date Collected: 11/10/22 10:40 Date Received: 11/11/22 10:04

Sample Depth: 6'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/14/22 14:27	11/15/22 18:10	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/14/22 14:27	11/15/22 18:10	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/14/22 14:27	11/15/22 18:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				11/14/22 14:27	11/15/22 18:10	1
o-Terphenyl	76		70 ₋ 130				11/14/22 14:27	11/15/22 18:10	1

4.97 11/16/22 03:42 600 Chloride mg/Kg **Client Sample ID: PH18** Lab Sample ID: 890-3434-9

RL

MDL Unit

D

Prepared

Result Qualifier

Date Collected: 11/10/22 10:50

Date Received: 11/11/22 10:04

Sample Depth: 8'

Analyte

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 06:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 06:17	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 06:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/14/22 15:47	11/22/22 06:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 06:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 15:47	11/22/22 06:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				11/14/22 15:47	11/22/22 06:17	1
1,4-Difluorobenzene (Surr)	111		70 - 130				11/14/22 15:47	11/22/22 06:17	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/22/22 15:30	1
Method: SW846 8015 NM - Diese	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/16/22 09:14	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/14/22 14:27	11/15/22 18:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/14/22 14:27	11/15/22 18:31	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/14/22 14:27	11/15/22 18:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				11/14/22 14:27	11/15/22 18:31	1
o-Terphenyl	83		70 - 130				11/14/22 14:27	11/15/22 18:31	1

Client Sample Results

Client: Ensolum Job ID: 890-3434-1 Project/Site: Pecos Fed 1Y SDG: Eddy County NM

Client Sample ID: PH18

Date Collected: 11/10/22 10:50 Date Received: 11/11/22 10:04

Sample Depth: 8'

Lab Sample ID: 890-3434-9

Matrix: Solid

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Dil Fac Analyte RL MDL Unit D Prepared Analyzed 25.3 11/16/22 03:48 Chloride

mg/Kg

365

Surrogate Summary

Client: Ensolum Job ID: 890-3434-1
Project/Site: Pecos Fed 1Y SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

•				Percent Surrogate Rec
		BFB1	DFBZ1	_
Lab Sample ID C	lient Sample ID	(70-130)	(70-130)	
890-3423-A-1-D MS M	latrix Spike	104	94	
890-3423-A-1-E MSD M	latrix Spike Duplicate	113	87	
890-3434-1 P	H11	135 S1+	136 S1+	
890-3434-2 P	H11	122	129	
890-3434-3 P	H16	116	106	
890-3434-4 P	H16	118	108	
390-3434-5 P	H16	117	107	
390-3434-6 P	H18	127	108	
890-3434-7 P	H18	121	104	
890-3434-8 P	H18	121	106	
890-3434-9 P	H18	124	111	
LCS 880-39546/1-A La	ab Control Sample	91	82	
LCSD 880-39546/2-A La	ab Control Sample Dup	99	93	
MB 880-39546/5-A M	lethod Blank	112	92	
MB 880-40068/5-A M	lethod Blank	101	92	
Surrogate Legend				
BFB = 4-Bromofluorobenzene (S	Surr)			
DFBZ = 1,4-Difluorobenzene (Si	urr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

iatrix: Solid				Prep Type: Total/N
•				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3432-A-1-E MS	Matrix Spike	88	75	
890-3432-A-1-F MSD	Matrix Spike Duplicate	87	74	
890-3434-1	PH11	92	93	
890-3434-2	PH11	94	93	
890-3434-3	PH16	88	88	
890-3434-4	PH16	89	88	
890-3434-5	PH16	100	99	
890-3434-6	PH18	100	99	
890-3434-7	PH18	86	85	
890-3434-8	PH18	78	76	
890-3434-9	PH18	85	83	
LCS 880-39516/2-A	Lab Control Sample	84	81	
LCSD 880-39516/3-A	Lab Control Sample Dup	84	81	
MB 880-39516/1-A	Method Blank	107	110	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

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2

3

5

4.0

12

13

15

QC Sample Results

Client: Ensolum Job ID: 890-3434-1 Project/Site: Pecos Fed 1Y SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39546/5-A

Matrix: Solid

Analysis Batch: 40037

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39546

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/21/22 22:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/21/22 22:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/21/22 22:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/14/22 15:47	11/21/22 22:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/21/22 22:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/14/22 15:47	11/21/22 22:20	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	11/14/22 15:47	11/21/22 22:20	1
1,4-Difluorobenzene (Surr)	92		70 - 130	11/14/22 15:47	11/21/22 22:20	1

Lab Sample ID: LCS 880-39546/1-A

Matrix: Solid

Analysis Batch: 40037

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39546

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.06955		mg/Kg		70	70 - 130	
Toluene	0.100	0.08190		mg/Kg		82	70 - 130	
Ethylbenzene	0.100	0.08788		mg/Kg		88	70 - 130	
m-Xylene & p-Xylene	0.200	0.1753		mg/Kg		88	70 - 130	
o-Xylene	0.100	0.1027		mg/Kg		103	70 - 130	
The state of the s								

LCS LCS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	82		70 - 130

Lab Sample ID: LCSD 880-39546/2-A

Matrix: Solid

Analysis Batch: 40037

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 39546

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07665		mg/Kg		77	70 - 130	10	35
Toluene	0.100	0.08944		mg/Kg		89	70 - 130	9	35
Ethylbenzene	0.100	0.09524		mg/Kg		95	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1909		mg/Kg		95	70 - 130	9	35
o-Xylene	0.100	0.1111		mg/Kg		111	70 - 130	8	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1,4-Difluorobenzene (Surr)	93	70 - 130

Lab Sample ID: 890-3423-A-1-D MS

Matrix: Solid

Analysis Batch: 40037

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 39546

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0998	0.07603		mg/Kg		76	70 - 130	
Toluene	< 0.00199	U	0.0998	0.08510		mg/Kg		85	70 - 130	

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4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

QC Sample Results

Job ID: 890-3434-1 Client: Ensolum Project/Site: Pecos Fed 1Y SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

104

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Lab Sample ID: 890-3423-A-1-D MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 40037 Prep Batch: 39546

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00199	U	0.0998	0.08975		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1800		mg/Kg		90	70 - 130
o-Xylene	<0.00199	U	0.0998	0.1033		mg/Kg		103	70 - 130
	MS	MS							
Surrogate	%Recovery	Qualifier	l imits						

70 - 130

70 - 130

Client Sample ID: Matrix Spike Duplicate Lab Sample ID: 890-3423-A-1-E MSD **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 40037** Prep Batch: 39546

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0996	0.07504		mg/Kg		75	70 - 130	1	35
Toluene	<0.00199	U	0.0996	0.08927		mg/Kg		90	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.0996	0.09882		mg/Kg		99	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1954		mg/Kg		98	70 - 130	8	35
o-Xylene	<0.00199	U	0.0996	0.1117		mg/Kg		112	70 - 130	8	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

MR MR

Lab Sample ID: MB 880-40068/5-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 40037 Prep Batch: 40068

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 11:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 11:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 11:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/21/22 09:48	11/21/22 11:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 11:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/21/22 09:48	11/21/22 11:40	1

	11.12	1112				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	11/21/22 09:48	11/21/22 11:40	1
1,4-Difluorobenzene (Surr)	92		70 - 130	11/21/22 09:48	11/21/22 11:40	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-39516/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 39567 Prep Batch: 39516

мв мв Result Qualifier MDL Unit Prepared <50.0 U 50.0 11/14/22 14:27 11/15/22 08:37 Gasoline Range Organics mg/Kg

(GRO)-C6-C10

QC Sample Results

Job ID: 890-3434-1 Client: Ensolum Project/Site: Pecos Fed 1Y SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-39516/1-A **Matrix: Solid**

Lab Sample ID: LCS 880-39516/2-A

Analysis Batch: 39567

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39516

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		11/14/22 14:27	11/15/22 08:37	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/14/22 14:27	11/15/22 08:37	1

MB MB

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	107		70 - 130	11/14/22 14:27	11/15/22 08:37	1
Į	o-Terphenyl	110		70 - 130	11/14/22 14:27	11/15/22 08:37	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39516

Analysis Batch: 39567 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 801.1 80 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 802.2 mg/Kg 80 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: LCSD 880-39516/3-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 39567

Prep Type: Total/NA

Prep Batch: 39516

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	805.9		mg/Kg		81	70 - 130	1	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	801.6		mg/Kg		80	70 - 130	0	20	
C10-C28)										

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 84 70 - 130 o-Terphenyl 81 70 - 130

Lab Sample ID: 890-3432-A-1-E MS

Matrix: Solid

Analysis Batch: 39567

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CHEIL	Jailible	ıD.	IVIALI IA	SDIKE

Prep Type: Total/NA Prep Batch: 39516

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1121		mg/Kg		110	70 - 130	
Diesel Range Organics (Over	<50.0	U	997	818.0		mg/Kg		80	70 - 130	

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	75		70 - 130

Client: Ensolum Job ID: 890-3434-1 Project/Site: Pecos Fed 1Y SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-3432-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Analysis Batch: 39567 Prep Type: Total/NA Prep Batch: 39516

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: PH16

Client Sample ID: PH16

Prep Type: Soluble

Prep Type: Soluble

Sample Sample Spike MSD MSD RPD Result Qualifier RPD Limit Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <50.0 U 999 1119 mg/Kg 110 70 - 130 0 20 (GRO)-C6-C10 999 Diesel Range Organics (Over <50.0 U 826.5 mg/Kg 81 70 - 130

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	74		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39449/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 39642

мв мв

Analyte	Result	Qualifier	RL	MDL Un	nit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		g/Kg			11/16/22 01:26	1

Lab Sample ID: LCS 880-39449/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 39642

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	274.3		mg/Kg	_	110	90 - 110	

Lab Sample ID: LCSD 880-39449/3-A

Matrix: Solid

Analysis Batch: 39642

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	274.5		ma/Ka		110	90 110		20	

Lab Sample ID: 890-3434-5 MS

Matrix: Solid

Analysis Batch: 39642

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	221		252	478.7		ma/Ka		102	90 110	 	-

Lab Sample ID: 890-3434-5 MSD

Matrix: Solid

Analysis Ratch: 39642

Alialysis Dalcii. 33042											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	221		252	472.1		mg/Kg		100	90 - 110	1	20

QC Association Summary

Client: Ensolum Job ID: 890-3434-1 Project/Site: Pecos Fed 1Y SDG: Eddy County NM

GC VOA

Prep Batch: 39546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3434-1	PH11	Total/NA	Solid	5035	
890-3434-2	PH11	Total/NA	Solid	5035	
890-3434-3	PH16	Total/NA	Solid	5035	
890-3434-4	PH16	Total/NA	Solid	5035	
890-3434-5	PH16	Total/NA	Solid	5035	
890-3434-6	PH18	Total/NA	Solid	5035	
890-3434-7	PH18	Total/NA	Solid	5035	
890-3434-8	PH18	Total/NA	Solid	5035	
890-3434-9	PH18	Total/NA	Solid	5035	
MB 880-39546/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39546/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39546/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3423-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-3423-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 40037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3434-1	PH11	Total/NA	Solid	8021B	39546
890-3434-2	PH11	Total/NA	Solid	8021B	39546
890-3434-3	PH16	Total/NA	Solid	8021B	39546
890-3434-4	PH16	Total/NA	Solid	8021B	39546
890-3434-5	PH16	Total/NA	Solid	8021B	39546
890-3434-6	PH18	Total/NA	Solid	8021B	39546
890-3434-7	PH18	Total/NA	Solid	8021B	39546
890-3434-8	PH18	Total/NA	Solid	8021B	39546
890-3434-9	PH18	Total/NA	Solid	8021B	39546
MB 880-39546/5-A	Method Blank	Total/NA	Solid	8021B	39546
MB 880-40068/5-A	Method Blank	Total/NA	Solid	8021B	40068
LCS 880-39546/1-A	Lab Control Sample	Total/NA	Solid	8021B	39546
LCSD 880-39546/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39546
890-3423-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	39546
890-3423-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	39546

Prep Batch: 40068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-40068/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 40234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3434-1	PH11	Total/NA	Solid	Total BTEX	
890-3434-2	PH11	Total/NA	Solid	Total BTEX	
890-3434-3	PH16	Total/NA	Solid	Total BTEX	
890-3434-4	PH16	Total/NA	Solid	Total BTEX	
890-3434-5	PH16	Total/NA	Solid	Total BTEX	
890-3434-6	PH18	Total/NA	Solid	Total BTEX	
890-3434-7	PH18	Total/NA	Solid	Total BTEX	
890-3434-8	PH18	Total/NA	Solid	Total BTEX	
890-3434-9	PH18	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum Job ID: 890-3434-1
Project/Site: Pecos Fed 1Y SDG: Eddy County NM

GC Semi VOA

Prep Batch: 39516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3434-1	PH11	Total/NA	Solid	8015NM Prep	
890-3434-2	PH11	Total/NA	Solid	8015NM Prep	
890-3434-3	PH16	Total/NA	Solid	8015NM Prep	
890-3434-4	PH16	Total/NA	Solid	8015NM Prep	
890-3434-5	PH16	Total/NA	Solid	8015NM Prep	
890-3434-6	PH18	Total/NA	Solid	8015NM Prep	
890-3434-7	PH18	Total/NA	Solid	8015NM Prep	
890-3434-8	PH18	Total/NA	Solid	8015NM Prep	
890-3434-9	PH18	Total/NA	Solid	8015NM Prep	
MB 880-39516/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39516/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39516/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3432-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3432-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3434-1	PH11	Total/NA	Solid	8015B NM	39516
890-3434-2	PH11	Total/NA	Solid	8015B NM	39516
890-3434-3	PH16	Total/NA	Solid	8015B NM	39516
890-3434-4	PH16	Total/NA	Solid	8015B NM	39516
890-3434-5	PH16	Total/NA	Solid	8015B NM	39516
890-3434-6	PH18	Total/NA	Solid	8015B NM	39516
890-3434-7	PH18	Total/NA	Solid	8015B NM	39516
890-3434-8	PH18	Total/NA	Solid	8015B NM	39516
890-3434-9	PH18	Total/NA	Solid	8015B NM	39516
MB 880-39516/1-A	Method Blank	Total/NA	Solid	8015B NM	39516
LCS 880-39516/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39516
LCSD 880-39516/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39516
890-3432-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	39516
890-3432-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	39516

Analysis Batch: 39646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3434-1	PH11	Total/NA	Solid	8015 NM	
890-3434-2	PH11	Total/NA	Solid	8015 NM	
890-3434-3	PH16	Total/NA	Solid	8015 NM	
890-3434-4	PH16	Total/NA	Solid	8015 NM	
890-3434-5	PH16	Total/NA	Solid	8015 NM	
890-3434-6	PH18	Total/NA	Solid	8015 NM	
890-3434-7	PH18	Total/NA	Solid	8015 NM	
890-3434-8	PH18	Total/NA	Solid	8015 NM	
890-3434-9	PH18	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 39449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3434-1	PH11	Soluble	Solid	DI Leach	
890-3434-2	PH11	Soluble	Solid	DI Leach	
890-3434-3	PH16	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum

Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1

SDG: Eddy County NM

HPLC/IC (Continued)

Leach Batch: 39449 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3434-4	PH16	Soluble	Solid	DI Leach	_
890-3434-5	PH16	Soluble	Solid	DI Leach	
890-3434-6	PH18	Soluble	Solid	DI Leach	
890-3434-7	PH18	Soluble	Solid	DI Leach	
890-3434-8	PH18	Soluble	Solid	DI Leach	
890-3434-9	PH18	Soluble	Solid	DI Leach	
MB 880-39449/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39449/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39449/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3434-5 MS	PH16	Soluble	Solid	DI Leach	
890-3434-5 MSD	PH16	Soluble	Solid	DI Leach	

Analysis Batch: 39642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3434-1	PH11	Soluble	Solid	300.0	39449
890-3434-2	PH11	Soluble	Solid	300.0	39449
890-3434-3	PH16	Soluble	Solid	300.0	39449
890-3434-4	PH16	Soluble	Solid	300.0	39449
890-3434-5	PH16	Soluble	Solid	300.0	39449
890-3434-6	PH18	Soluble	Solid	300.0	39449
890-3434-7	PH18	Soluble	Solid	300.0	39449
890-3434-8	PH18	Soluble	Solid	300.0	39449
890-3434-9	PH18	Soluble	Solid	300.0	39449
MB 880-39449/1-A	Method Blank	Soluble	Solid	300.0	39449
LCS 880-39449/2-A	Lab Control Sample	Soluble	Solid	300.0	39449
LCSD 880-39449/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39449
890-3434-5 MS	PH16	Soluble	Solid	300.0	39449
890-3434-5 MSD	PH16	Soluble	Solid	300.0	39449

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Project/Site: Pecos Fed 1Y

SDG: Eddy County NM

Client Sample ID: PH11

Client: Ensolum

Lab Sample ID: 890-3434-1

Matrix: Solid

Date Collected: 11/10/22 09:10 Date Received: 11/11/22 10:04

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39546	11/14/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/22/22 03:32	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40234	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			39646	11/15/22 16:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39516	11/14/22 14:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39567	11/15/22 14:59	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39449	11/14/22 11:43	KS	EET MID
Soluble	Analysis	300.0		1			39642	11/16/22 02:40	CH	EET MID

Client Sample ID: PH11

Date Collected: 11/10/22 09:20

Lab Sample ID: 890-3434-2

Matrix: Solid

Date Collected: 11/10/22 09:20
Date Received: 11/11/22 10:04

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.02 g 5 mL 39546 11/14/22 15:47 MNR EET MID Total/NA 8021B 5 mL 11/22/22 03:53 **EET MID** Analysis 1 5 mL 40037 SM Total/NA Total BTEX 40234 11/22/22 15:30 EET MID Analysis 1 SM Total/NA Analysis 8015 NM 39646 11/16/22 09:14 ΑJ **EET MID** Total/NA 39516 11/14/22 14:27 EET MID Prep 8015NM Prep 10.02 g 10 mL DM Total/NA Analysis 8015B NM 1 uL 1 uL 39567 11/15/22 16:05 ΑJ **EET MID** Soluble 5.03 g 11/14/22 11:43 KS Leach DI Leach 50 mL 39449 EET MID Soluble Analysis 300.0 39642 11/16/22 02:46 СН **EET MID**

Client Sample ID: PH16 Lab Sample ID: 890-3434-3

Date Collected: 11/10/22 09:40
Date Received: 11/11/22 10:04
Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39546	11/14/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/22/22 04:13	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40234	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			39646	11/16/22 09:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39516	11/14/22 14:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39567	11/15/22 16:26	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	39449	11/14/22 11:43	KS	EET MID
Soluble	Analysis	300.0		1			39642	11/16/22 02:51	CH	EET MID

Client Sample ID: PH16 Lab Sample ID: 890-3434-4

Date Collected: 11/10/22 09:50 Matrix: Solid
Date Received: 11/11/22 10:04

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39546	11/14/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/22/22 04:34	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40234	11/22/22 15:30	SM	EET MID

Eurofins Carlsbad

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Client: Ensolum

Job ID: 890-3434-1 Project/Site: Pecos Fed 1Y SDG: Eddy County NM

Client Sample ID: PH16 Lab Sample ID: 890-3434-4 Date Collected: 11/10/22 09:50 Matrix: Solid Date Received: 11/11/22 10:04

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			39646	11/16/22 09:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39516	11/14/22 14:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39567	11/15/22 16:47	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39449	11/14/22 11:43	KS	EET MID
Soluble	Analysis	300.0		1			39642	11/16/22 02:57	CH	EET MID

Client Sample ID: PH16 Lab Sample ID: 890-3434-5

Date Collected: 11/10/22 10:00 **Matrix: Solid** Date Received: 11/11/22 10:04

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	39546	11/14/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/22/22 04:54	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40234	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			39646	11/16/22 09:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39516	11/14/22 14:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39567	11/15/22 17:08	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39449	11/14/22 11:43	KS	EET MID
Soluble	Analysis	300.0		1			39642	11/16/22 03:02	CH	EET MID

Client Sample ID: PH18 Lab Sample ID: 890-3434-6 Date Collected: 11/10/22 10:20 **Matrix: Solid**

Date Received: 11/11/22 10:04

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	39546	11/14/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/22/22 05:15	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40234	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			39646	11/16/22 09:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39516	11/14/22 14:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39567	11/15/22 17:28	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	39449	11/14/22 11:43	KS	EET MID
Soluble	Analysis	300.0		10			39642	11/16/22 03:19	CH	EET MID

Client Sample ID: PH18 Lab Sample ID: 890-3434-7

Date Collected: 11/10/22 10:30 **Matrix: Solid** Date Received: 11/11/22 10:04

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	39546	11/14/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/22/22 05:36	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40234	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			39646	11/16/22 09:14	AJ	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g 1 uL	10 mL 1 uL	39516 39567	11/14/22 14:27 11/15/22 17:49	DM AJ	EET MID

Client: Ensolum Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1 SDG: Eddy County NM

Client Sample ID: PH18 Lab Sample ID: 890-3434-7 Date Collected: 11/10/22 10:30

Matrix: Solid

Date Received: 11/11/22 10:04

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	39449	11/14/22 11:43	KS	EET MID
Soluble	Analysis	300.0		1			39642	11/16/22 03:25	CH	EET MID

Client Sample ID: PH18 Lab Sample ID: 890-3434-8

Date Collected: 11/10/22 10:40 **Matrix: Solid**

Date Received: 11/11/22 10:04

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39546	11/14/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/22/22 05:56	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40234	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			39646	11/16/22 09:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39516	11/14/22 14:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39567	11/15/22 18:10	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39449	11/14/22 11:43	KS	EET MID
Soluble	Analysis	300.0		1			39642	11/16/22 03:42	CH	EET MID

Client Sample ID: PH18 Lab Sample ID: 890-3434-9

Date Collected: 11/10/22 10:50 **Matrix: Solid**

Date Received: 11/11/22 10:04

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39546	11/14/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/22/22 06:17	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40234	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			39646	11/16/22 09:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39516	11/14/22 14:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39567	11/15/22 18:31	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	39449	11/14/22 11:43	KS	EET MID
Soluble	Analysis	300.0		5			39642	11/16/22 03:48	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-3434-1
Project/Site: Pecos Fed 1Y SDG: Eddy County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority Texas		ogram	Identification Number	Expiration Date
		ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report, bu	it the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for w
the agency does not of	• '	,	od by the governing datherity. The list his	ay molade analytes for w
the agency does not of Analysis Method	• '	Matrix	Analyte	ay morade analytes for w
9 ,	fer certification.	•	, , ,	

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Method Description

Total BTEX Calculation

Microextraction

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Deionized Water Leaching Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

Method Summary

Client: Ensolum

Method

8021B

Total BTEX

8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1

SDG: Eddy County NM

Protocol	Laboratory
SW846	EET MID
TAL SOP	EET MID
SW846	EET MID
SW846	EET MID
MCAWW	EET MID

EET MID

EET MID

EET MID

SW846

SW846

ASTM

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum

Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1

SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3434-1	PH11	Solid	11/10/22 09:10	11/11/22 10:04	4'
890-3434-2	PH11	Solid	11/10/22 09:20	11/11/22 10:04	8'
890-3434-3	PH16	Solid	11/10/22 09:40	11/11/22 10:04	4'
890-3434-4	PH16	Solid	11/10/22 09:50	11/11/22 10:04	6'
890-3434-5	PH16	Solid	11/10/22 10:00	11/11/22 10:04	8'
890-3434-6	PH18	Solid	11/10/22 10:20	11/11/22 10:04	0.5'
890-3434-7	PH18	Solid	11/10/22 10:30	11/11/22 10:04	4'
890-3434-8	PH18	Solid	11/10/22 10:40	11/11/22 10:04	6'
890-3434-9	PH18	Solid	11/10/22 10:50	11/11/22 10:04	8'

eurofins	Environment	Testing
		resering
	Xenco	

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlshad, NM (575) 988-3199

Work Order N	0:		

							11000	J. 14101 (575) 39	2 7000	, ound		. (0.0)							www	.xenco	.com	Page	1	_ of <u></u> 1	
Project Manager:	Ben Belill Bill to: (If different)						t)	Jim Raley								Work Order Comments										
Company Name:	Ensolum					Company Name: WPX							Program: UST/PST PRP Brownfields RRC Superfund													
Address:	3122 Natio	nal P	arks F	YWY		Address	Address: 5315 Buena Vista Dr.									State of Project:										
City, State ZIP:	ZIP: Carlsbad, NM 88220				City, Sta	Carlsbad. NM 88220							Reporting Level II Level III PST/UST TRRP Level IV													
Phone:	989-854-0	852			Email:	BBelill@	Belill@Ensolum.com, jim.raley@dvn.com								Deliverables: EDD ADaPT Other:											
Project Name:		ecos	Fed 1	1	Turr	Turn Around				ANALYSIS R						REQ	UEST					Preservative Codes				
Project Number:	(03A19	98701	4	✓ Routine	ne Rush Pres															None: NO DI Water: H ₂ O					
Project Location:	Ed	ddy County, NM		Due Date:	5 Day TAT																	Cool: Cool	- 1	меОН: Ме	•	
Sampler's Name:	Yocoly Edyte Konan		onan	TAT starts the day received by																		HCL: HC HNO ₃ HN			1	
CC #:		10610	084701		the lab, if red			5															H ₂ SO ₄ : H ₂ NaOH: Na			
SAMPLE RECEI		mp Bl	ank:	Yes No	Wet Ice:	(Per		meters	6			1	1	Ш									H ₃ PO ₄ : HP NaHSO ₄ : NABIS			
Samples Received In			No	Thermomet		TIM		ag (300				ı	Н												
Cooler Custody Seals		_	1	Correction I			.2	۵	PA:					- 11		ШШ		110	11111				$Na_2S_2O_3$: I	-		- 1
Sample Custody Sea	ls: Yes	No	N/A	Temperatur		5.1	P		S (E		_			89	0-343	4 Ch	nain of Custody					-	Zn Acetate			
Total Containers:				Corrected 1	emperature:	5.1	4		SIDE	015)	(8021												NaOH+As	corbic A	cid: SAPC	,
Sample Iden	tification		Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	втех (Sample Comments				
PH1	1		S	11.10.22	9:10	4'	G	1	Х	Х	Х															
PH1	1		S	11.10.22	9:20	8'	G	1	X	Х	X															
PH1	6		S	11.10.22	9:40	4'	G	1	X	Х	Х												Inci	dent N	umbers	
PH1	6		S	11.10.22	9:50	6'	G	1	Х	Х	X												nAF	P2208	846424	
PH1	6		S	11.10.22	10:00	8'	G	1	X	Х	X															
PH1	8		S	11.10.22	10:20	0.5'	G	1	Х	Х	Х															
PH18	8		S	11.10.22	10:30	4'	G	1	Х	Х	X															
PH18	8		S	11.10.22	10.40	6'	G	1	X	<u>×</u>	_X															
PH18	8	- !	S	11.10.22	10:50	8'	G	1	X	Х	X															
Total 200.7 / 60 Circle Method(s) ar					TCLP / SF												_			< Se	_	_	Na Sr TI :			
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lotice: Signature of this d f service. Eurofins Xenc f Eurofins Xenco. A mini	o will be liable	only for	r the cos	t of samples ar	nd shall not assu	ime any res	sponsibili	ty for ar	y losse	sorex	penses	incurred	by the	lient if s	such lo	sses an	e due to	circum	nstance:	beyon	d the cor	ntrol	ı.			
Relinquished by: (Signature) Received by: (Signature)			iture)			Date/Time Relinquished by: (Sign					gnatu	ature) Received by: (Signature)						re)	Da	te/Time						
formala Step				_	il	1/1/22 100g																				
												4							_							

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3434-1

SDG Number: Eddy County NM

List Source: Eurofins Carlsbad

List Source:
List Number: 1

Creator: Stutzman, Amanda

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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11/22/2022

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3434-1 SDG Number: Eddy County NM

List Source: Eurofins Midland

List Creation: 11/14/22 08:39 AM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 3434

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

<6mm (1/4").

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 11/22/2022 3:23:06 PM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Pecos Federal #001Y

Work Order: E303119

Job Number: 01058-0007

Received: 3/29/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 4/4/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/4/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: Pecos Federal #001Y

Workorder: E303119

Date Received: 3/29/2023 6:45:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/29/2023 6:45:00AM, under the Project Name: Pecos Federal #001Y.

The analytical test results summarized in this report with the Project Name: Pecos Federal #001Y apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

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Alexa Michaels

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Southern New Mexico Area Lynn Jarboe

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Office: 505-421-LABS(5227)

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Envirotech Web Address: www.envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan

Technical Representative Office: 505-421-LABS(5227)

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Sample Summary

WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	Donoutodi
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	04/04/23 10:12

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 7'	E303119-01A	Soil	03/24/23	03/29/23	Glass Jar, 4 oz.
FS02 7'	E303119-02A	Soil	03/24/23	03/29/23	Glass Jar, 4 oz.
FS03 7'	E303119-03A	Soil	03/24/23	03/29/23	Glass Jar, 4 oz.
FS04 7'	E303119-04A	Soil	03/24/23	03/29/23	Glass Jar, 4 oz.
FS05 7'	E303119-05A	Soil	03/24/23	03/29/23	Glass Jar, 4 oz.



WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 10:12:47AM

FS01 7' E303119-01

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst:	RKS		Batch: 2313042
Benzene	ND	0.0250	1		03/29/23	03/30/23	
Ethylbenzene	ND	0.0250	1		03/29/23	03/30/23	
Toluene	ND	0.0250	1		03/29/23	03/30/23	
o-Xylene	ND	0.0250	1		03/29/23	03/30/23	
p,m-Xylene	ND	0.0500	1		03/29/23	03/30/23	
Total Xylenes	ND	0.0250	1	l	03/29/23	03/30/23	
Surrogate: Bromofluorobenzene		99.5 %	70-130		03/29/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130		03/29/23	03/30/23	
Surrogate: Toluene-d8		99.7 %	70-130		03/29/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg Analyst: RKS		RKS		Batch: 2313042	
Gasoline Range Organics (C6-C10)	ND	20.0	1		03/29/23	03/30/23	
Surrogate: Bromofluorobenzene		99.5 %	70-130		03/29/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130		03/29/23	03/30/23	
Surrogate: Toluene-d8		99.7 %	70-130		03/29/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst:	JL		Batch: 2313051
Diesel Range Organics (C10-C28)	ND	25.0	1		03/30/23	03/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1		03/30/23	03/31/23	
Surrogate: n-Nonane		100 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313045
Chloride	270	20.0	1		03/29/23	03/30/23	



WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 10:12:47AM

FS02 7' E303119-02

		1000117 02					
Analyte	Result	Reporting Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: F			Batch: 2313042
Benzene	ND	0.0250	1	-	03/29/23	03/30/23	Batem 20150 12
Ethylbenzene	ND	0.0250	1	1	03/29/23	03/30/23	
Toluene	ND	0.0250	1	- [03/29/23	03/30/23	
o-Xylene	ND	0.0250	1	l	03/29/23	03/30/23	
p,m-Xylene	ND	0.0500	1	l	03/29/23	03/30/23	
Total Xylenes	ND	0.0250	1	l	03/29/23	03/30/23	
Surrogate: Bromofluorobenzene		103 %	70-130		03/29/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130		03/29/23	03/30/23	
Surrogate: Toluene-d8		102 %	70-130		03/29/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: F	RKS		Batch: 2313042
Gasoline Range Organics (C6-C10)	ND	20.0	1	Į	03/29/23	03/30/23	
Surrogate: Bromofluorobenzene		103 %	70-130		03/29/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130		03/29/23	03/30/23	
Surrogate: Toluene-d8		102 %	70-130		03/29/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	-	Analyst: J	L		Batch: 2313051
Diesel Range Organics (C10-C28)	ND	25.0	1		03/30/23	03/31/23	-
Oil Range Organics (C28-C36)	ND	50.0	1	l	03/30/23	03/31/23	
Surrogate: n-Nonane		103 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	-	Analyst: E	BA		Batch: 2313045
Chloride	331	20.0	1	[03/29/23	03/30/23	



WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 10:12:47AM

FS03 7' E303119-03

		2000117 00					
Analyte	Result	Reporting Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: F		-,	Batch: 2313042
Benzene	ND	0.0250	1	-	03/29/23	03/30/23	Batch. 2313012
Ethylbenzene	ND	0.0250	1	1	03/29/23	03/30/23	
Toluene	ND	0.0250	1	- [03/29/23	03/30/23	
o-Xylene	ND	0.0250	1	l	03/29/23	03/30/23	
p,m-Xylene	ND	0.0500	1	l	03/29/23	03/30/23	
Total Xylenes	ND	0.0250	1	l	03/29/23	03/30/23	
Surrogate: Bromofluorobenzene		100 %	70-130		03/29/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130		03/29/23	03/30/23	
Surrogate: Toluene-d8		102 %	70-130		03/29/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: F	RKS		Batch: 2313042
Gasoline Range Organics (C6-C10)	ND	20.0	1	Į	03/29/23	03/30/23	
Surrogate: Bromofluorobenzene		100 %	70-130		03/29/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130		03/29/23	03/30/23	
Surrogate: Toluene-d8		102 %	70-130		03/29/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: J	L		Batch: 2313051
Diesel Range Organics (C10-C28)	ND	25.0	1		03/30/23	03/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	l	03/30/23	03/31/23	
Surrogate: n-Nonane		102 %	50-200		03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: E	3A		Batch: 2313045
Chloride	296	20.0	1	[03/29/23	03/30/23	



WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 10:12:47AM

FS04 7'

		E303119-04				
Reporting						
Analyte	Result	Limit	Dilut	tion Prepa	ared Analyze	d Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2313042
Benzene	ND	0.0250	1	03/29	0/23 03/30/23	3
Ethylbenzene	ND	0.0250	1	03/29	03/30/23	3
Toluene	ND	0.0250	1	03/29	03/30/23	3
o-Xylene	ND	0.0250	1	03/29	03/30/23	3
p,m-Xylene	ND	0.0500	1	03/29	03/30/23	3
Total Xylenes	ND	0.0250	1	03/29	0/23 03/30/23	3
Surrogate: Bromofluorobenzene		99.6 %	70-130	03/29	03/30/23	3
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	03/29	03/30/23	3
Surrogate: Toluene-d8		100 %	70-130	03/29	03/30/23	3
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2313042
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29	0/23 03/30/23	3
Surrogate: Bromofluorobenzene		99.6 %	70-130	03/29	0/23 03/30/23	3
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	03/29	03/30/23	3
Surrogate: Toluene-d8		100 %	70-130	03/29	03/30/23	3
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL		Batch: 2313051
Diesel Range Organics (C10-C28)	ND	25.0	1	03/30	0/23 03/31/23	3
Oil Range Organics (C28-C36)	ND	50.0	1	03/30	0/23 03/31/23	3
Surrogate: n-Nonane		103 %	50-200	03/30	03/31/23	3
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: BA		Batch: 2313045
Chloride	278	20.0	1	03/29	0/23 03/30/23	.,,



WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 10:12:47AM

FS05 7' E303119-05

Analyte	Result	Reporting Limit	Dilut	ion Duon1	Analyzas I	Notes
Analyte	Resuit	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2313042
Benzene	ND	0.0250	1	03/29/23	03/30/23	
Ethylbenzene	ND	0.0250	1	03/29/23	03/30/23	
Toluene	ND	0.0250	1	03/29/23	03/30/23	
o-Xylene	ND	0.0250	1	03/29/23	03/30/23	
p,m-Xylene	ND	0.0500	1	03/29/23	03/30/23	
Total Xylenes	ND	0.0250	1	03/29/23	03/30/23	
Surrogate: Bromofluorobenzene		102 %	70-130	03/29/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	03/29/23	03/30/23	
Surrogate: Toluene-d8		101 %	70-130	03/29/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2313042
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/23	03/30/23	
Surrogate: Bromofluorobenzene		102 %	70-130	03/29/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	03/29/23	03/30/23	
Surrogate: Toluene-d8		101 %	70-130	03/29/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL		Batch: 2313051
Diesel Range Organics (C10-C28)	ND	25.0	1	03/30/23	03/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/30/23	03/31/23	
Surrogate: n-Nonane		103 %	50-200	03/30/23	03/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: BA		Batch: 2313045
Chloride	302	20.0	1	03/29/23	03/30/23	



Pecos Federal #001Y WPX Energy - Carlsbad Project Name: Reported: Project Number: 5315 Buena Vista Dr 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 4/4/2023 10:12:47AM **Volatile Organic Compounds by EPA 8260B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2313042-BLK1) Prepared: 03/29/23 Analyzed: 03/30/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.501 0.500 100 70-130 Surrogate: 1,2-Dichloroethane-d4 0.474 0.500 94.7 70-130 0.500 101 70-130 Surrogate: Toluene-d8 0.505 LCS (2313042-BS1) Prepared: 03/29/23 Analyzed: 03/30/23 2.24 0.0250 2.50 89.7 70-130 Benzene 2.50 70-130 2.18 87.2 Ethylbenzene 0.0250 2.18 0.0250 2.50 87.1 70-130 88.9 70-130 2.22 0.0250 2.50 o-Xylene 4.38 5.00 87.6 70-130 p,m-Xylene 0.0500 6.60 0.0250 7.50 88.0 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.503 0.500 101 70-130 0.500 104 70-130 Surrogate: 1,2-Dichloroethane-d4 0.522 70-130 Surrogate: Toluene-d8 0.506 0.500 Matrix Spike (2313042-MS1) Source: E303119-01 Prepared: 03/29/23 Analyzed: 03/30/23 48-131 2.45 0.0250 2.50 ND 98.2 45-135 Ethylbenzene 2.33 0.0250 2.50 ND 93.2 48-130 Toluene 2.34 0.0250 2.50 ND 93.6 2.34 0.0250 2.50 ND 93.6 43-135 o-Xylene ND 92.2 43-135 p,m-Xylene 4.61 0.0500 5.00 Total Xylenes 6.95 0.0250 7.50 ND 92.7 43-135 97.3 Surrogate: Bromofluorobenzene 0.487 0.500 70-130 0.516 0.500 103 70-130 Surrogate: 1,2-Dichloroethane-d4 0.500 100 70-130 0.500 Surrogate: Toluene-d8 Matrix Spike Dup (2313042-MSD1) Source: E303119-01 Prepared: 03/29/23 Analyzed: 03/30/23 2.36 0.0250 2.50 ND 94.2 48-131 4.10 23 2.30 0.0250 2.50 ND 91.9 45-135 1.45 27 Ethylbenzene ND 92.2 48-130 1.55 24 2.30 2.50 Toluene 0.0250 o-Xylene 2.33 0.0250 2.50 ND 93.2 43-135 0.493 27

5.00

7.50

0.500

0.500

0.500

0.0500

0.0250

4.56

6.89

0.490

0.507

0.499

ND

ND

91.1

91.8

979

101

99.8

43-135

43-135

70-130

70-130

70-130

1.17

0.940



27

27

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	_
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 10:12:47AM

5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager:		058-0007 lbert Moreno					4/4/2023 10:12:47AN
	Non	halogenated C	Organics l	by EPA 801	5D - GF	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313042-BLK1)							Prepared: 03	3/29/23 A	analyzed: 03/30/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			
LCS (2313042-BS2)							Prepared: 03	3/29/23 A	analyzed: 03/30/23
Gasoline Range Organics (C6-C10)	41.7	20.0	50.0		83.4	70-130			
Gurrogate: Bromofluorobenzene	0.497		0.500		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			
Matrix Spike (2313042-MS2)				Source: F	E303119-0	1	Prepared: 03	3/29/23 A	analyzed: 03/30/23
Gasoline Range Organics (C6-C10)	42.2	20.0	50.0	ND	84.4	70-130			
Gurrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			
Matrix Spike Dup (2313042-MSD2)				Source: F	E303119-0	1	Prepared: 03	3/29/23 A	analyzed: 03/30/23
Gasoline Range Organics (C6-C10)	41.0	20.0	50.0	ND	81.9	70-130	2.95	20	
Surrogate: Bromofluorobenzene	0.495		0.500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			

0.500

0.509

102

70-130



WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	·
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 10:12:47AM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno					4/4/2023 10:12:47AN	
Nonhalogenated Organics by EPA 8015D - DRO/ORO Analyst: JL										
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2313051-BLK1)							Prepared: 0	3/30/23 A	Analyzed: 03/31/23	
biesel Range Organics (C10-C28)	ND	25.0								
vil Range Organics (C28-C36)	ND	50.0								
urrogate: n-Nonane	52.0		50.0		104	50-200				
.CS (2313051-BS1)							Prepared: 0	3/30/23 A	Analyzed: 03/31/23	
riesel Range Organics (C10-C28)	252	25.0	250		101	38-132				
urrogate: n-Nonane	51.6		50.0		103	50-200				
Matrix Spike (2313051-MS1)				Source:	E303119-0	05	Prepared: 0	3/30/23 A	Analyzed: 03/31/23	
viesel Range Organics (C10-C28)	250	25.0	250	ND	100	38-132				
urrogate: n-Nonane	49.5		50.0		99.0	50-200				
Matrix Spike Dup (2313051-MSD1)				Source:	E303119-0	05	Prepared: 0	3/30/23 A	Analyzed: 03/31/23	
tiesel Range Organics (C10-C28)	246	25.0	250	ND	98.4	38-132	1.67	20		
urrogate: n-Nonane	49.8		50.0		99.5	50-200				



WPX Energy - Carlsbad		Project Name:	_	ecos Federal #	001Y				Reported:
5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager		1058-0007 filbert Moreno					4/4/2023 10:12:47AM
		Anions	by EPA	300.0/9056 <i>E</i>	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313045-BLK1)							Prepared: 0	3/29/23 A	nalyzed: 03/30/23
Chloride	ND	20.0							
LCS (2313045-BS1)							Prepared: 0	3/29/23 A	nalyzed: 03/30/23
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2313045-MS1)				Source:	E303111-0)1	Prepared: 0	3/29/23 A	nalyzed: 03/30/23
Chloride	3460	40.0	250	3190	109	80-120			
Matrix Spike Dup (2313045-MSD1)				Source:	E303111-0)1	Prepared: 0	3/29/23 A	nalyzed: 03/30/23
Chloride	3330	40.0	250	3190	53.7	80-120	4.05	20	M2

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	04/04/23 10:12

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client: WPX Permian Energy, LLC	Bill To	81	Lab Use Only			TA	TAT EPA Pro		rogram					
Project: Pecos Federal #001Y	Attention: Jim Raley		Lab W	O#		Job N	Numb	per	1D	2D	3D	Standard	CWA	SDWA
Project Manager: Gilbert Moreno	Address: 5315 Buena Vista Dr.	y.		3110			FOOT	-			5 Day TAT			
Address: 3122 National Parks HWY	City, State, Zip: Carlsbad, NM, 88220							Metho						RCRA
City, State, Zip: Carlsbad, NM, 88220	Phone: 575-885-7502	7		by	T				1	T	П			195
Phone: 832-541-7719	Email: jim.raley@dvn.com	II.	1	ORO S									State	
Email: devon-team@ensolum.com	Cost Center: 1061084701		1	RO/	1			0.0	-			NM CO	UT AZ	TX
Collected by: Yocoly Edyte Konan	Incident ID: nAPP2208846424		£	jQ/C	802	826(2010	300	Σ	×	1 1			
Time Date Matrix No. of Containers	Sample ID	Lab Number	Depth(ft)	TPH GRO/DRO/ORO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	верос	ВСБОС			Remarks	
10:30 3.24.23 S 1	FS01	1	7'						Х					
10:40 3.24.23 S 1	FS02	2	7'						Х					
10:50 3.24.23 S 1	FS03	3	7'						Х				2	
11:00 3.24.23 S 1	FS04		7'						Х					
10:40 3.27.23 S 1	FS05	5	7'						Х					
		+23											.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	103-28													
												=		
	6													
												3123133333333	iii	
Additional Instructions:														
I, (field sampler), attest to the validity and authenticity of this sample. I a date or time of collection is considered fraud and may be grounds for leg-		ng the sample	location,									eived on ice the day t °C on subsequent da		ed or received
Relinquished by: (Signature) Yocoly Edyte Konan Date 03/28/2 3 09.00	Received by: (Signature) Mithilla Cample	Date 3-28.0	23	ime 0900		Rece	eived	on ice:		ab U	se Onl	y		
Relinquished by: (Signature) Date 3-23-23 UgC		3-28-		ime Ta	/	<u>T1</u>			<u>T2</u>			<u></u>		
Relinduished by: (Signature) Date 328-23 238	Received by: (Signature)	03/29/		ime 6:48	_	AVG	Tem	p°C_4	D					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other	()		-											
Note: Samples are discarded 30 days after results are reported up		Container												



envirotech Inc.

Printed: 3/29/2023 9:03:06AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	03/29/23	06:45		Work Order ID:	E303119
Phone:	(539) 573-4018	Date Logged In:	03/29/23	08:01		Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	04/04/23	17:00 (4 day TAT)			
Chain of	Custody (COC)						
1. Does th	ne sample ID match the COC?		Yes				
2. Does th	ne number of samples per sampling site location ma	tch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: <u>(</u>	<u>Courier</u>		
4. Was the	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes				
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes			Comments	s/Resolution
Sample T	urn Around Time (TAT)						
	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>Cooler</u>						
7. Was a s	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C. Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	re received w/i 15	Yes				
Sample C		<u>. </u>	<u>~</u>				
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers	9	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lab	· · ·	ners concercu:	103				
	field sample labels filled out with the minimum info	ormation:					
	ample ID?	orridation.	Yes				
	ate/Time Collected?		Yes				
C	ollectors name?		Yes				
Sample P	<u>reservation</u>						
21. Does	the COC or field labels indicate the samples were p	reserved?	No				
	imple(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	ise?	No				
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontr	act Laboratory						
	imples required to get sent to a subcontract laborato	orv?	No				
	subcontract laboratory specified by the client and i	•	NA	Subcontract Lab	o: NA		
	struction						
CHERTI	istruction						

Date

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Pecos Federal #001Y

Work Order: E303117

Job Number: 01058-0007

Received: 3/29/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/4/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/4/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: Pecos Federal #001Y

Workorder: E303117

Date Received: 3/29/2023 6:45:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/29/2023 6:45:00AM, under the Project Name: Pecos Federal #001Y.

The analytical test results summarized in this report with the Project Name: Pecos Federal #001Y apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Sample Summary

WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	Donoutoda
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	04/04/23 10:05

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01 0 - 4'	E303117-01A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
SW02 0 - 4'	E303117-02A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
SW03 0 - 4'	E303117-03A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
SW04 0 - 4'	E303117-04A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 10:05:23AM

SW01 0 - 4' E303117-01

		ECOCII, OI					
	D. I	Reporting			D 1		N.
Analyte	Result	Limit	Dili	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	SL		Batch: 2313033
Benzene	ND	0.0250		1	03/28/23	03/30/23	
Ethylbenzene	ND	0.0250		1	03/28/23	03/30/23	
Toluene	ND	0.0250		1	03/28/23	03/30/23	
o-Xylene	ND	0.0250		1	03/28/23	03/30/23	
p,m-Xylene	ND	0.0500		1	03/28/23	03/30/23	
Total Xylenes	ND	0.0250		1	03/28/23	03/30/23	
Surrogate: Bromofluorobenzene		91.2 %	70-130		03/28/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		91.2 %	70-130		03/28/23	03/30/23	
Surrogate: Toluene-d8		104 %	70-130		03/28/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	SL		Batch: 2313033
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/28/23	03/30/23	
Surrogate: Bromofluorobenzene		91.2 %	70-130		03/28/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		91.2 %	70-130		03/28/23	03/30/23	
Surrogate: Toluene-d8		104 %	70-130		03/28/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2313037
Diesel Range Organics (C10-C28)	ND	25.0		1	03/29/23	03/30/23	
Oil Range Organics (C28-C36)	ND	50.0		1	03/29/23	03/30/23	
Surrogate: n-Nonane		110 %	50-200		03/29/23	03/30/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313041
Chloride	142	20.0		1	03/29/23	03/30/23	



WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 10:05:23AM

SW02 0 - 4' E303117-02

	E505117-02					
Result	Reporting	Dilu	ıtion	Prepared	Analyzed	Notes
	Liiiit			•	Anaryzed	
mg/kg	mg/kg		Analyst:	SL		Batch: 2313033
ND	0.0250	1	1	03/28/23	03/30/23	
ND	0.0250	1	1	03/28/23	03/30/23	
ND	0.0250	1	1	03/28/23	03/30/23	
ND	0.0250	1	1	03/28/23	03/30/23	
ND	0.0500	1	1	03/28/23	03/30/23	
ND	0.0250	1	1	03/28/23	03/30/23	
	91.6 %	70-130		03/28/23	03/30/23	
	95.4 %	70-130		03/28/23	03/30/23	
	104 %	70-130		03/28/23	03/30/23	
mg/kg	mg/kg		Analyst:	SL		Batch: 2313033
ND	20.0	1	1	03/28/23	03/30/23	
	91.6 %	70-130		03/28/23	03/30/23	
	95.4 %	70-130		03/28/23	03/30/23	
	104 %	70-130		03/28/23	03/30/23	
mg/kg	mg/kg		Analyst:	Л		Batch: 2313037
ND	25.0	1	1	03/29/23	03/30/23	
ND	50.0	1	1	03/29/23	03/30/23	
	104 %	50-200		03/29/23	03/30/23	
mg/kg	mg/kg		Analyst:	BA		Batch: 2313041
359	20.0	1	1	03/29/23	03/30/23	
	ND ND ND ND ND ND Mg/kg ND Mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 91.6 % 95.4 % 104 % 104 % mg/kg mg/kg ND 20.0 91.6 % 95.4 % 104 % 104 % mg/kg mg/kg ND 25.0 ND 50.0 104 % mg/kg	Result Limit Dilu mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 91.6 % 70-130 95.4 % 70-130 104 % 70-130 mg/kg mg/kg ND 20.0 91.6 % 70-130 95.4 % 70-130 104 % 70-130 mg/kg mg/kg ND 25.0 ND 50.0 104 % 50-200 mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg Analyst: ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 91.6 % 70-130 95.4 % 70-130 mg/kg mg/kg Analyst: ND 20.0 1 95.4 % 70-130 1 95.4 % 70-130 1 mg/kg mg/kg Analyst: ND 25.0 1 ND 50.0 1 104 % 50-200 mg/kg Analyst:	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 03/28/23 ND 0.0250 1 03/28/23 ND 0.0250 1 03/28/23 ND 0.0250 1 03/28/23 ND 0.0500 1 03/28/23 ND 0.0250 1 03/28/23 ND 0.0250 1 03/28/23 95.4 % 70-130 03/28/23 104 % 70-130 03/28/23 104 % 70-130 03/28/23 95.4 % 70-130 03/28/23 95.4 % 70-130 03/28/23 104 % 70-130 03/28/23 104 % 70-130 03/28/23 mg/kg mg/kg Analyst: JL ND 25.0 1 03/29/23 ND 50.0 1 03/29/23 ND 50.0 1 03/29/23	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 03/28/23 03/30/23 ND 0.0500 1 03/28/23 03/30/23 ND 0.0250 1 03/28/23 03/30/23 91.6 % 70-130 03/28/23 03/30/23 95.4 % 70-130 03/28/23 03/30/23 mg/kg mg/kg Analyst: SL ND 20.0 1 03/28/23 03/30/23 95.4 % 70-130 03/28/23 03/30/23 95.4 % 70-130 03/28/23 03/30/23 95.4 % 70-130 03/28/23 03/30/23 mg/kg mg/kg Analyst: JL ND 25.0 1 03/29



WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 10:05:23AM

SW03 0 - 4' E303117-03

		E303117-03					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	-	Analyst:	SL		Batch: 2313033
Benzene	ND	0.0250	1	1	03/28/23	03/30/23	
Ethylbenzene	ND	0.0250	1	l	03/28/23	03/30/23	
Toluene	ND	0.0250	1	[03/28/23	03/30/23	
o-Xylene	ND	0.0250	1	[03/28/23	03/30/23	
p,m-Xylene	ND	0.0500	1	[03/28/23	03/30/23	
Total Xylenes	ND	0.0250	1	l	03/28/23	03/30/23	
Surrogate: Bromofluorobenzene		90.6 %	70-130		03/28/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130		03/28/23	03/30/23	
Surrogate: Toluene-d8		104 %	70-130		03/28/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	SL		Batch: 2313033
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	03/28/23	03/30/23	
Surrogate: Bromofluorobenzene		90.6 %	70-130		03/28/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130		03/28/23	03/30/23	
Surrogate: Toluene-d8		104 %	70-130		03/28/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	-	Analyst:	JL		Batch: 2313037
Diesel Range Organics (C10-C28)	ND	25.0	1	1	03/29/23	03/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	l	03/29/23	03/30/23	
Surrogate: n-Nonane	·	114 %	50-200		03/29/23	03/30/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313041
Chloride	332	20.0	1	1	03/29/23	03/30/23	



WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 10:05:23AM

SW04 0 - 4' E303117-04

		E303117-04					
Analyte	Result	Reporting Limit	Dilu	tion	Prepared	Analyzad	Notes
Analyte	Result	Limit	Dilu	uon	riepareu	Analyzed	notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	SL		Batch: 2313033
Benzene	ND	0.0250	1	l	03/28/23	03/30/23	
Ethylbenzene	ND	0.0250	1		03/28/23	03/30/23	
Toluene	ND	0.0250	1		03/28/23	03/30/23	
o-Xylene	ND	0.0250	1		03/28/23	03/30/23	
p,m-Xylene	ND	0.0500	1		03/28/23	03/30/23	
Total Xylenes	ND	0.0250	1		03/28/23	03/30/23	
Surrogate: Bromofluorobenzene		89.5 %	70-130		03/28/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130		03/28/23	03/30/23	
Surrogate: Toluene-d8		103 %	70-130		03/28/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	SL		Batch: 2313033
Gasoline Range Organics (C6-C10)	ND	20.0	1		03/28/23	03/30/23	
Surrogate: Bromofluorobenzene		89.5 %	70-130		03/28/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130		03/28/23	03/30/23	
Surrogate: Toluene-d8		103 %	70-130		03/28/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	ЛL		Batch: 2313037
Diesel Range Organics (C10-C28)	ND	25.0	1		03/29/23	03/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	<u> </u>	03/29/23	03/30/23	
Surrogate: n-Nonane	·	111 %	50-200		03/29/23	03/30/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313041
Chloride	369	20.0	1		03/29/23	03/30/23	



Pecos Federal #001Y WPX Energy - Carlsbad Project Name: Reported: Project Number: 5315 Buena Vista Dr 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 4/4/2023 10:05:23AM **Volatile Organic Compounds by EPA 8260B** Analyst: SL Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2313033-BLK1) Prepared: 03/28/23 Analyzed: 03/30/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.461 0.500 92.2 70-130 Surrogate: 1,2-Dichloroethane-d4 0.475 0.500 95.0 70-130 0.500 103 70-130 Surrogate: Toluene-d8 0.517 LCS (2313033-BS1) Prepared: 03/28/23 Analyzed: 03/30/23 2.23 0.0250 2.50 89.3 70-130 Benzene 2.28 2.50 70-130 91.1 Ethylbenzene 0.0250 2.28 0.0250 2.50 91.2 70-130 92.3 70-130 2.31 0.0250 2.50 o-Xylene 5.00 92.2 70-130 p,m-Xylene 4.61 0.0500 6.92 0.0250 7.50 92.2 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.496 0.500 99.2 70-130 0.500 98.6 70-130 Surrogate: 1,2-Dichloroethane-d4 0.493 70-130 Surrogate: Toluene-d8 0.515 0.500 Matrix Spike (2313033-MS1) Source: E303116-03 Prepared: 03/28/23 Analyzed: 03/30/23 48-131 2.25 0.0250 2.50 ND 90.1 45-135 Ethylbenzene 2.32 0.0250 2.50 ND 92.6 92.0 48-130 Toluene 2.30 0.0250 2.50 ND 2.34 0.0250 2.50 ND 93.4 43-135 o-Xylene 4.64 5.00 ND 92.8 43-135 p,m-Xylene 0.0500 Total Xylenes 6.98 0.0250 7.50 ND 93.0 43-135 99.2 Surrogate: Bromofluorobenzene 0.496 0.500 70-130 0.503 0.500 101 70-130 Surrogate: 1,2-Dichloroethane-d4 0.500 70-130 0.520 Surrogate: Toluene-d8 Matrix Spike Dup (2313033-MSD1) Source: E303116-03 Prepared: 03/28/23 Analyzed: 03/30/23 2.16 0.0250 2.50 ND 86.4 48-131 4.15 23 2.21 0.0250 2.50 ND 88.5 45-135 4.55 27 Ethylbenzene ND 88.3 48-130 4.10 24 2.21 2.50 Toluene 0.0250



2.23

4.46

6.69

0.501

0.500

0.513

0.0250

0.0500

0.0250

2.50

5.00

7.50

0.500

0.500

0.500

ND

ND

ND

89.2

89.3

89.3

100

99.9

43-135

43-135

43-135

70-130

70-130

70-130

4.58

3.93

4.15

27

27

27

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

WPX Energy - CarlsbadProject Name:Pecos Federal #001YReported:5315 Buena Vista DrProject Number:01058-0007Carlsbad NM, 88220Project Manager:Gilbert Moreno4/4/2023 10:05:23AM

Nonhalogenated	Organics by	v EPA 8015D	- GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

	Result	LIIIII	Level	Result	Rec	Limits	KPD	LIIIII	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313033-BLK1)							Prepared: 03	3/28/23 A	Analyzed: 03/30/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.461		0.500		92.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		95.0	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			
LCS (2313033-BS2)							Prepared: 03	3/28/23 A	Analyzed: 03/30/23
Gasoline Range Organics (C6-C10)	39.8	20.0	50.0		79.6	70-130		·	
Surrogate: Bromofluorobenzene	0.495		0.500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			
Matrix Spike (2313033-MS2)				Source:	E303116-0	3	Prepared: 03	3/28/23 A	Analyzed: 03/30/23
Gasoline Range Organics (C6-C10)	44.8	20.0	50.0	ND	89.7	70-130			
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4	0.486 0.521		0.500 0.500		97.1 104	70-130 70-130			
•									
Surrogate: 1,2-Dichloroethane-d4	0.521		0.500	Source:	104	70-130 70-130	Prepared: 03	3/28/23 A	Analyzed: 03/30/23
Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8	0.521	20.0	0.500	Source:	104 102	70-130 70-130	Prepared: 03	3/28/23 A	analyzed: 03/30/23
Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 Matrix Spike Dup (2313033-MSD2)	0.521 0.512	20.0	0.500 0.500		104 102 E303116-0	70-130 70-130			Analyzed: 03/30/23
Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 Matrix Spike Dup (2313033-MSD2) Gasoline Range Organics (C6-C10)	0.521 0.512 39.0	20.0	0.500 0.500 50.0		104 102 E303116-0 78.1	70-130 70-130 13 70-130			Analyzed: 03/30/23



WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 10:05:23AM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno	1				4/4/2023 10:05:23AN
	Nonha	logenated Or	ganics by	EPA 80151	D - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313037-BLK1)							Prepared: 0	3/29/23 A	nalyzed: 03/29/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.7		50.0		113	50-200			
LCS (2313037-BS1)							Prepared: 0	3/29/23 A	nalyzed: 03/30/23
Diesel Range Organics (C10-C28)	222	25.0	250		88.8	38-132			
Surrogate: n-Nonane	61.4		50.0		123	50-200			
Matrix Spike (2313037-MS1)				Source:	E303116-0	08	Prepared: 0	3/29/23 A	nalyzed: 03/29/23
Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	55.4		50.0		111	50-200			
Matrix Spike Dup (2313037-MSD1)				Source:	E303116-0	08	Prepared: 0	3/29/23 A	nalyzed: 03/29/23
Diesel Range Organics (C10-C28)	251	25.0	250	ND	100	38-132	7.37	20	
Surrogate: n-Nonane	52.5		50.0		105	50-200			



WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number		ecos Federal #	4001Y				Reported:
Carlsbad NM, 88220		Project Manager		ilbert Moreno					4/4/2023 10:05:23AM
		Anions	by EPA	300.0/9056 <i>A</i>	4				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313041-BLK1)							Prepared: 0	3/29/23 A	analyzed: 03/30/23
Chloride	ND	20.0							
LCS (2313041-BS1)							Prepared: 0	3/29/23 A	analyzed: 03/30/23
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2313041-MS1)				Source:	E303109-2	21	Prepared: 0	3/29/23 A	analyzed: 03/30/23
Chloride	285	20.0	250	22.4	105	80-120			
Matrix Spike Dup (2313041-MSD1)				Source:	E303109-2	21	Prepared: 0	3/29/23 A	analyzed: 03/30/23
Chloride	282	20.0	250	22.4	104	80-120	0.923	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	04/04/23 10:05

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Page	of	18

Client: \^	/PX Permi	an Energ	v IIC		Bill To	The second		1.	b I I	000	1.		and the same	-		TAT		FDAD	
	Pecos Fed			Attention: Jim Raley	SIII 10		h 14/0/		יט מו	e On	Num	hor	1	n 12		TAT D S	tandard		rogran
	Manager:			Address: 5315 Buena	Vista Dr	- La	b WO#	11-	1			occ.	7	D 2	0 3		Day TAT	CWA	SDW
	3122 Nat			City, State, Zip: Carlsl	A WATER CONTROL OF THE CONTROL OF TH		000	211				d Met)	Day IAI		RCF
	te, Zip: Ca			Phone: 575-885-7502		+		70	_	Tildiy	1	- IVICE	T	Т	7	T	-		INCI
	32-541-7			Email: jim.raley@dvn		-		8										State	
Email: de	evon-team	n@ensolu	ım.com	Cost Center: 1061084		-		0/0	_			0.		_			NMI CO	UT AZ	TXI
Collected	d by: Yoca	oly Edyte	Konan	Incident ID: nAPP220		_	⊋	ND/DR	by 8021	3260	010	300		Σ	×		111111111111111111111111111111111111111	0.11.2	+
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Numl	er	Depth(ft)	TPH GRO/DRO/ORO by 8015	BTEX by	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	BGDOC			Remarks	
9:00	3.27.23	S	1	SW01		Uga I	- 4'							X					
9:10	3.27.23	S	1	SW02	2	0	- 4'							x					
9:20	3.27.23	S	1	SW03	3	0	- 4'							x					
9:30	3.27.23	S	1	SW04	4	0	- 4'							x		\top			
					03	29	3-2	3	-										
				ha	4									1					
				The second secon												1			
												\Box	İ	1		+			
Addition	al Instruct	tions:																Vancous Portion	
				ity of this sample. I am aware that tampering with or in ay be grounds for legal action. Samples	ntentionally mislabelling the sam	ple loca	ition,			10 28							on ice the day	150	ed or re
Relinquishe	ed by: (Signa te Konan	ture)	Date 031	Time Received by: (Signature 29:103 09:00 M. Gulle	- Data	-23	Tim	900	>	Rece	eived	on ice	a;	Lab	Use (Only			
Relinquished Much	ed by: (Signa	ture)	Date	1823 1600 Received by: (Signatu	Date 3-2		1100			T1			<u></u>				T3		
D	ed by: (Signa	ture)	Date	S-23 Z308 Received by: (Signature)		9/23	Time				Tem	p °C_						1	
	-	- Her	4	ueous, O - Other		_	pe: g - g			1					1877				ally (thr)

Printed: 3/29/2023 8:55:36AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	03/29/23 (06:45		Work Order ID:	E303117
Phone:	(539) 573-4018	Date Logged In:	03/28/23	14:58		Logged In By:	Caitlin Christian
Email:	devon-team@ensolum.com	Due Date:		17:00 (4 day TAT)		<i>ce</i> ,	
Chain of	Custody (COC)						
1. Does th	ne sample ID match the COC?		Yes				
2. Does th	ne number of samples per sampling site location ma	tch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes	_			
5. Were al	Il samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in					Comment	s/Resolution
C1- T	i.e, 15 minute hold time, are not included in this disucssi	on.				Comment	3/1C30Iution
	Urn Around Time (TAT)		Yes				
	COC indicate standard TAT, or Expedited TAT?		168				
Sample C	ample cooler received?		Yes				
	was cooler received:						
• /	G		Yes				
	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
12. Was the	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling		Yes				
13. If no v	visible ice, record the temperature. Actual sample	temperature: 4°0	<u>C</u>				
Sample C	Container						
	queous VOC samples present?		No				
15. Are V	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers	?	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lab	· · ·						
	— field sample labels filled out with the minimum info	ormation:					
	ample ID?		Yes				
	ate/Time Collected?		Yes				
	ollectors name?		No				
-	reservation						
	the COC or field labels indicate the samples were pr	reserved?	No				
	ample(s) correctly preserved?	. 1.0	NA				
	filteration required and/or requested for dissolved n	netals?	No				
	se Sample Matrix						
	the sample have more than one phase, i.e., multipha		No				
27. If yes,	does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
28. Are sa	imples required to get sent to a subcontract laborato	ry?	No				
29. Was a	subcontract laboratory specified by the client and is	f so who?	NA	Subcontract Lab	: NA		
Client In	astruction_						

Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Pecos Federal #001Y

Work Order: E303114

Job Number: 01058-0007

Received: 3/29/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/4/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/4/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: Pecos Federal #001Y

Workorder: E303114

Date Received: 3/29/2023 6:45:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/29/2023 6:45:00AM, under the Project Name: Pecos Federal #001Y.

The analytical test results summarized in this report with the Project Name: Pecos Federal #001Y apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Cell: 775-287-1762

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Envirotech Web Address: www.envirotech-inc.com



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Sample Summary

Γ	WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
l	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	04/04/23 08:48

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SW05 0 - 7'	E303114-01A Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
SW06 0 - 7'	E303114-02A Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
SW07 0 - 7'	E303114-03A Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
SW08 0 - 7'	E303114-04A Soil	03/27/23	03/29/23	Glass Jar, 2 oz.



ſ	WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 8:48:19AM

SW05 0 - 7' E303114-01

		ECOCIII OI					
Analyta	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Analyte	Resuit	Limit	Dii	ution	Frepared	Anaiyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2313031
Benzene	ND	0.0250		1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250		1	03/29/23	03/29/23	
Toluene	ND	0.0250		1	03/29/23	03/29/23	
o-Xylene	ND	0.0250		1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500		1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250		1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene		99.8 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8		105 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2313031
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene		99.8 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8		105 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2313038
Diesel Range Organics (C10-C28)	ND	25.0		1	03/29/23	03/29/23	_
Oil Range Organics (C28-C36)	ND	50.0		1	03/29/23	03/29/23	
Surrogate: n-Nonane		97.5 %	50-200		03/29/23	03/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313045
Chloride	332	20.0		1	03/29/23	03/30/23	



WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 8:48:19AM

SW06 0 - 7' E303114-02

		E303114-02					
	D. Iv	Reporting	D.	1	D 1		N
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2313031
Benzene	ND	0.0250		1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250		1	03/29/23	03/29/23	
Toluene	ND	0.0250		1	03/29/23	03/29/23	
o-Xylene	ND	0.0250		1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500		1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250		1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene		98.0 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		111 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8		106 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2313031	
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene		98.0 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		111 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8		106 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL			Batch: 2313038
Diesel Range Organics (C10-C28)	ND	25.0		1	03/29/23	03/29/23	-
Oil Range Organics (C28-C36)	ND	50.0		1	03/29/23	03/29/23	
Surrogate: n-Nonane		94.5 %	50-200		03/29/23	03/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2313045
Chloride	378	20.0		1	03/29/23	03/30/23	



WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 8:48:19AM

SW07 0 - 7' E303114-03

		E303114-03					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2313031
Benzene	ND	0.0250		1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250		1	03/29/23	03/29/23	
Toluene	ND	0.0250		1	03/29/23	03/29/23	
o-Xylene	ND	0.0250		1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500		1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250		1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene		97.3 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8		106 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg mg/kg		Analyst: IY			Batch: 2313031	
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene		97.3 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8		106 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL			Batch: 2313038
Diesel Range Organics (C10-C28)	ND	25.0		1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0		1	03/29/23	03/29/23	
Surrogate: n-Nonane		100 %	50-200	·	03/29/23	03/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2313045
Chloride	353	20.0		1	03/29/23	03/30/23	



Sample Data

WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 8:48:19AM

SW08 0 - 7' E303114-04

		E303114-04					
	D 1	Reporting		.•	D 1		N
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	Y		Batch: 2313031
Benzene	ND	0.0250	1	l	03/29/23	03/30/23	
Ethylbenzene	ND	0.0250	1	l	03/29/23	03/30/23	
Toluene	ND	0.0250	1	l	03/29/23	03/30/23	
o-Xylene	ND	0.0250	1	l	03/29/23	03/30/23	
p,m-Xylene	ND	0.0500	1	l	03/29/23	03/30/23	
Total Xylenes	ND	0.0250	1	<u> </u>	03/29/23	03/30/23	
Surrogate: Bromofluorobenzene		99.1 %	70-130		03/29/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130		03/29/23	03/30/23	
Surrogate: Toluene-d8		106 %	70-130		03/29/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: I	Y		Batch: 2313031
Gasoline Range Organics (C6-C10)	ND	20.0	1	Į.	03/29/23	03/30/23	
Surrogate: Bromofluorobenzene		99.1 %	70-130		03/29/23	03/30/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130		03/29/23	03/30/23	
Surrogate: Toluene-d8		106 %	70-130		03/29/23	03/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: J	īL		Batch: 2313038
Diesel Range Organics (C10-C28)	ND	25.0	1	1	03/29/23	03/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	<u> </u>	03/29/23	03/30/23	
Surrogate: n-Nonane		65.6 %	50-200		03/29/23	03/30/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: I	ВА		Batch: 2313045
Chloride	360	20.0	1	1	03/29/23	03/30/23	



WPX Energy - Carlsbad Project Name: Pecos Federal #001Y Reported:
5315 Buena Vista Dr Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 4/4/2023 8:48:19AM

Carlsbad NM, 88220	Pı	roject Managei	r: Gi	lbert Moreno				4	1/4/2023 8:48:19AM
	Vola	atile Organi	ic Compor	unds by EPA	A 8260I	3			Analyst: IY
Analyte Re	esult	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
m	g/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313031-BLK1)							Prepared: 0.	3/29/23 An	alyzed: 03/29/23
	ND	0.0250							
,	ND	0.0250							
	ND	0.0250							
*	ND	0.0250							
	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene 0.	.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4 0.	.549		0.500		110	70-130			
Surrogate: Toluene-d8 0.	.520		0.500		104	70-130			
LCS (2313031-BS1)							Prepared: 03	3/29/23 An	alyzed: 03/29/23
Benzene 2	2.31	0.0250	2.50		92.3	70-130			
Ethylbenzene 2	2.31	0.0250	2.50		92.2	70-130			
Toluene 2	2.36	0.0250	2.50		94.3	70-130			
o-Xylene 2	2.35	0.0250	2.50		93.8	70-130			
,,,	1.65	0.0500	5.00		93.0	70-130			
Total Xylenes 7	7.00	0.0250	7.50		93.3	70-130			
Surrogate: Bromofluorobenzene 0.	.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4 0.	.562		0.500		112	70-130			
· ·	.515		0.500		103	70-130			
LCS Dup (2313031-BSD1)							Prepared: 0.	3/29/23 An	alyzed: 03/29/23
Benzene 2	2.33	0.0250	2.50		93.2	70-130	0.992	23	
	2.36	0.0250	2.50		94.6	70-130	2.55	27	
•	2.42	0.0250	2.50		96.7	70-130	2.53	24	
o-Xylene 2	2.38	0.0250	2.50		95.3	70-130	1.50	27	
o,m-Xylene 4	1.76	0.0500	5.00		95.2	70-130	2.31	27	
Total Xylenes 7	7.14	0.0250	7.50		95.2	70-130	2.04	27	
Surrogate: Bromofluorobenzene 0.	.538	-	0.500		108	70-130			
Surrogate. Bromojiuorobenzene 0.			0.00			70 150			

0.500

102

70-130



Surrogate: Toluene-d8

0.512

WPX Energy - Carlsbad Project Name: Pecos Federal #001Y Reported:
5315 Buena Vista Dr Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 4/4/2023 8:48:19AM

Nonhalogenated	Organics by	v EPA	.8015D -	GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

					Prepared: 0	3/20/23 A	analyzed: 03/29/23
NID					Trepared. 0.	0127123 F	maryzed. 03/27/23
ND	20.0						
0.488		0.500	97.6	70-130			
0.549		0.500	110	70-130			
0.520		0.500	104	70-130			
					Prepared: 03	3/29/23 A	analyzed: 03/29/23
50.2	20.0	50.0	100	70-130			
0.510		0.500	102	70-130			
0.568		0.500	114	70-130			
0.521		0.500	104	70-130			
					Prepared: 03	3/29/23 A	analyzed: 03/29/23
48.4	20.0	50.0	96.7	70-130	3.80	20	
0.516		0.500	103	70-130			
0.574		0.500	115	70-130			
0.525		0.500	105	70-130			
	0.488 0.549 0.520 50.2 0.510 0.568 0.521 48.4 0.516 0.574	0.488 0.549 0.520 50.2 20.0 0.510 0.568 0.521 48.4 20.0 0.516 0.574	0.488 0.500 0.549 0.500 0.520 0.500 50.2 20.0 50.0 0.510 0.500 0.568 0.500 0.521 0.500 48.4 20.0 50.0 0.516 0.500 0.574 0.500	0.488 0.500 97.6 0.549 0.500 110 0.520 0.500 104 50.2 20.0 50.0 100 0.510 0.500 102 0.568 0.500 114 0.521 0.500 104 48.4 20.0 50.0 96.7 0.516 0.500 103 0.574 0.500 115	0.488 0.500 97.6 70-130 0.549 0.500 110 70-130 0.520 0.500 104 70-130 50.2 20.0 50.0 100 70-130 0.510 0.500 102 70-130 0.568 0.500 114 70-130 0.521 0.500 104 70-130 48.4 20.0 50.0 96.7 70-130 0.516 0.500 103 70-130 0.574 0.500 115 70-130	0.488	0.488



WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	_
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 8:48:19AM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno					4/4/2023 8:48:19AM
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313038-BLK1)							Prepared: 0	3/29/23 A	nalyzed: 03/29/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	54.5		50.0		109	50-200			
LCS (2313038-BS1)							Prepared: 0	3/29/23 A	nalyzed: 03/29/23
Diesel Range Organics (C10-C28)	174	25.0	250		69.5	38-132			
urrogate: n-Nonane	50.5		50.0		101	50-200			
Matrix Spike (2313038-MS1)				Source:	E303114-0	02	Prepared: 0	3/29/23 A	nalyzed: 03/29/23
Diesel Range Organics (C10-C28)	186	25.0	250	ND	74.2	38-132			
urrogate: n-Nonane	49.4		50.0		98.7	50-200			
Matrix Spike Dup (2313038-MSD1)				Source:	E303114-0	02	Prepared: 0	3/29/23 A	nalyzed: 03/29/23
Diesel Range Organics (C10-C28)	171	25.0	250	ND	68.3	38-132	8.32	20	
'urrogate: n-Nonane	50.1		50.0		100	50-200			



WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		ecos Federal #	001Y				Reported:
Carlsbad NM, 88220		Project Manager		ilbert Moreno					4/4/2023 8:48:19AM
		Anions	by EPA	300.0/9056	A				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313045-BLK1)							Prepared: 0	3/29/23 A	nalyzed: 03/30/23
Chloride	ND	20.0							
LCS (2313045-BS1)							Prepared: 0	3/29/23 A	nalyzed: 03/30/23
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2313045-MS1)				Source:	E303111-0)1	Prepared: 0	3/29/23 A	nalyzed: 03/30/23
Chloride	3460	40.0	250	3190	109	80-120			
Matrix Spike Dup (2313045-MSD1)				Source:	E303111-0)1	Prepared: 0	3/29/23 A	nalyzed: 03/30/23
Chloride	3330	40.0	250	3190	53.7	80-120	4.05	20	M2

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	04/04/23 08:48

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client: V	VPX Perm	ian Energ	y, LLC		Bill To				Lab	Us	e Only	1		300		TA	TA	EPA P	rogram			
	Pecos Fed				Attention: Jim Raley		Lab V	NO#		1-1-2	Job N				2D	3D	Standard	CWA	SDWA			
Project I	Manager:	Gilbert N	1oreno		Address: 5315 Buena Vista Dr.	14	E34	33	114		0/05	58	000	7			5 Day TAT					
	: 3122 Na				City, State, Zip: Carlsbad, NM, 882	20		-					d Meth						RCRA			
	te, Zip: Ca		IM, 88220		Phone: 575-885-7502				by by						T							
	332-541-7				Email: jim.raley@dvn.com		7		ORO		- 1								State			
	evon-tear				Cost Center: 1061084701				RO/	21		_	0.0	0.0	0.0	0.0	5			NM CO	UT AZ	TX
Collecte	d by: Yoc	oly Edyte	Konan		Incident ID: nAPP2208846424	(40)	Œ		0/0	802	826	6010	a 30	Σ								
Time Sampled	Date Sampled	Matrix	No. of Containers		Sample ID	Lab Numbe	Depth(ft)		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	BGDOC			Remarks				
9:40	3.27.23	S	1		SW05	1	0 - 7'							Х								
9:50	3.27.23	S	1		SW06	2	0 - 7'							Х								
10:00	3.27.23	S	1		SW07	3	0 - 7'							Х								
10:10	3.27.23	S	1		SW08	4	0 - 7'							Х								
									90	3												
					à	03	5-2	8			_				T				of 15			
					hat H														ə			
					and the second s														Page			
															T							
Addition	al Instruc	tions:															L					
7 TZ 10 10				icity of this sample.	I am aware that tampering with or intentionally mislab egal action. Sampled by: Gilbert Mor		location	,									ceived on ice the day 5°C on subsequent d		ed or received			
Relinquish Yocoly Edy	ed by: (Signa te Konan	ature)	Date 03/	128 123 05	Received by: (Signature) Mychella Cunzala	Date 3-1X	23	Time	900	4	Recei	ved	on ice:		Lab L	se On	ly					
Much	ed by: (Signa	our to	Date 3	1823 16	Received by: (Signature)	Date 3 = 28		Time			T1			T2			Т3					
Relinguish	ed by: (Signa	//	Date	8-23 Time 23	Received by: (Signature)	Date 03/29	123	Time	45			Tom	p °C_4									
			1	queous, O - Other _	- Dulle Di	Containe						_			- V -	VOA						
					unless other arrangements are made. Hazardou												port for the anal	vsis of the a	bove			
					oratory with this COC. The liability of the laborat								. cric one	cap			port for the and	,5.5 01 1.10 0				



Printed: 3/29/2023 9:14:16AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	03/29/23	06:45		Work Order ID:	E303114
Phone:	(539) 573-4018	Date Logged In:	03/28/23	14:53		Logged In By:	Caitlin Christian
Email:	devon-team@ensolum.com	Due Date:		17:00 (4 day TAT)			
Chain of	Custody (COC)						
1. Does th	e sample ID match the COC?		Yes				
2. Does th	e number of samples per sampling site location mate	ch the COC	Yes				
3. Were sa	imples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was the	COC complete, i.e., signatures, dates/times, request	ted analyses?	Yes	· -			
5. Were al	l samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssio					Comments	s/Resolution
Sample T	urn Around Time (TAT)						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>ooler</u>						
7. Was a s	ample cooler received?		Yes				
8. If yes, v	vas cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
	were custody/security seals intact?		NA				
•	e sample received on ice? If yes, the recorded temp is 4°C,	i.e., 6°±2°C	Yes				
12. ************************************	Note: Thermal preservation is not required, if samples are minutes of sampling		103				
13. If no v	visible ice, record the temperature. Actual sample	temperature: 4°	C				
Sample C		• —	_				
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample contain-		Yes				
Field Lab		ors conceive.	103				
-	field sample labels filled out with the minimum infor	mation.					
	ample ID?	.manon.	Yes				
	ate/Time Collected?		Yes				
C	ollectors name?		Yes				
Sample P	reservation						
21. Does t	he COC or field labels indicate the samples were pro-	eserved?	No				
22. Are sa	mple(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved me	etals?	No				
Multipha	se Sample Matrix						
26. Does t	the sample have more than one phase, i.e., multiphas	e?	No				
	does the COC specify which phase(s) is to be analyst		NA				
	act Laboratory						
	mples required to get sent to a subcontract laborator	?	No				
	subcontract laboratory specified by the client and if	-	NA	Subcontract Lab	NI A		
		so wiio:	INA	Subcontract Lat); NA		
Client In	struction						

Date

Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Pecos Federal #001Y

Work Order: E303111

Job Number: 01058-0007

Received: 3/29/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/4/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/4/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: Pecos Federal #001Y

Workorder: E303111

Date Received: 3/29/2023 6:45:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/29/2023 6:45:00AM, under the Project Name: Pecos Federal #001Y.

The analytical test results summarized in this report with the Project Name: Pecos Federal #001Y apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

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West Texas Midland/Odessa Area Rayny Hagan

Technical Representative Office: 505-421-LABS(5227)

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Sample Summary

		<u> </u>	
WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	Donoutoda
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	04/04/23 08:41
	5315 Buena Vista Dr	5315 Buena Vista Dr Project Number:	5315 Buena Vista Dr Project Number: 01058-0007

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW09 0-7'	E303111-01A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 8:41:54AM

SW09 0-7' E303111-01

		ECOCIII OI					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Analyte	Result	Limit	Dii	ution	Frepared	Anaiyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2313031
Benzene	ND	0.0250		1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250		1	03/29/23	03/29/23	
Toluene	ND	0.0250		1	03/29/23	03/29/23	
o-Xylene	ND	0.0250		1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500		1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250		1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene		96.3 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8		105 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2313031
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene		96.3 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8		105 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2313038
Diesel Range Organics (C10-C28)	ND	25.0		1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0		1	03/29/23	03/29/23	
Surrogate: n-Nonane		100 %	50-200		03/29/23	03/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313045
Chloride	3190	40.0		2	03/29/23	03/30/23	



WPX Energy - Carlsbad Project Name: Pecos Federal #001Y Reported:
5315 Buena Vista Dr Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 4/4/2023 8:41:54AM

Carlsbad NM, 88220		Project Manage	r: Gi	ilbert Moreno				4/4	4/2023 8:41:54AM
	Vo	olatile Organ	ic Compo	unds by EI	PA 82601	В			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313031-BLK1)							Prepared: 0	3/29/23 Anal	yzed: 03/29/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.549		0.500		110	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			
LCS (2313031-BS1)							Prepared: 0	3/29/23 Anal	yzed: 03/29/23
Benzene	2.31	0.0250	2.50		92.3	70-130			
Ethylbenzene	2.31	0.0250	2.50		92.2	70-130			
Toluene	2.36	0.0250	2.50		94.3	70-130			
o-Xylene	2.35	0.0250	2.50		93.8	70-130			
p,m-Xylene	4.65	0.0500	5.00		93.0	70-130			
Total Xylenes	7.00	0.0250	7.50		93.3	70-130			
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.562		0.500		112	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			
LCS Dup (2313031-BSD1)							Prepared: 0	3/29/23 Anal	yzed: 03/29/23
Benzene	2.33	0.0250	2.50		93.2	70-130	0.992	23	
Ethylbenzene	2.36	0.0250	2.50		94.6	70-130	2.55	27	
Toluene	2.42	0.0250	2.50		96.7	70-130	2.53	24	
o-Xylene	2.38	0.0250	2.50		95.3	70-130	1.50	27	
o,m-Xylene	4.76	0.0500	5.00		95.2	70-130	2.31	27	
Total Xylenes	7.14	0.0250	7.50		95.2	70-130	2.04	27	
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.580		0.500		116	70-130			
•									

0.500

102

70-130



Surrogate: Toluene-d8

0.512

WPX Energy - CarlsbadProject Name:Pecos Federal #001YReported:5315 Buena Vista DrProject Number:01058-0007Carlsbad NM, 88220Project Manager:Gilbert Moreno4/4/20238:41:54AM

Nonhalogenated	Organics	by EPA	8015D -	GRO

Ana	

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

Blank (2313031-BLK1)						Prepared: 03	3/29/23 A	Analyzed: 03/29/23
Gasoline Range Organics (C6-C10)	ND	20.0						·
Surrogate: Bromofluorobenzene	0.488		0.500	97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.549		0.500	110	70-130			
Surrogate: Toluene-d8	0.520		0.500	104	70-130			
LCS (2313031-BS2)						Prepared: 0	3/29/23 A	Analyzed: 03/29/23
Gasoline Range Organics (C6-C10)	50.2	20.0	50.0	100	70-130			
Surrogate: Bromofluorobenzene	0.510		0.500	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.568		0.500	114	70-130			
Surrogate: Toluene-d8	0.521		0.500	104	70-130			
LCS Dup (2313031-BSD2)						Prepared: 0	3/29/23 A	Analyzed: 03/29/23
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	96.7	70-130	3.80	20	
Surrogate: Bromofluorobenzene	0.516		0.500	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.574		0.500	115	70-130			
Surrogate: Toluene-d8	0.525		0.500	105	70-130			



WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	-
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 8:41:54AM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno					4/4/2023 8:41:54AM
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313038-BLK1)							Prepared: 0	3/29/23 A	nalyzed: 03/29/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	54.5		50.0		109	50-200			
LCS (2313038-BS1)							Prepared: 0	3/29/23 A	nalyzed: 03/29/23
Diesel Range Organics (C10-C28)	174	25.0	250		69.5	38-132			
urrogate: n-Nonane	50.5		50.0		101	50-200			
Matrix Spike (2313038-MS1)				Source:	E303114-0	02	Prepared: 0	3/29/23 A	nalyzed: 03/29/23
Diesel Range Organics (C10-C28)	186	25.0	250	ND	74.2	38-132			
urrogate: n-Nonane	49.4		50.0		98.7	50-200			
Matrix Spike Dup (2313038-MSD1)				Source:	E303114-0	02	Prepared: 0	3/29/23 A	nalyzed: 03/29/23
Diesel Range Organics (C10-C28)	171	25.0	250	ND	68.3	38-132	8.32	20	
'urrogate: n-Nonane	50.1		50.0		100	50-200			

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		ecos Federal # 1058-0007	001Y				Reported:
Carlsbad NM, 88220		Project Manager		ilbert Moreno					4/4/2023 8:41:54AM
		Anions	by EPA	300.0/9056 <i>A</i>	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313045-BLK1)							Prepared: 0	3/29/23 A	analyzed: 03/30/23
Chloride	ND	20.0							
LCS (2313045-BS1)							Prepared: 0	3/29/23 A	analyzed: 03/30/23
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2313045-MS1)				Source:	E303111-0)1	Prepared: 0	3/29/23 A	analyzed: 03/30/23
Chloride	3460	40.0	250	3190	109	80-120			
Matrix Spike Dup (2313045-MSD1)				Source:	E303111-0)1	Prepared: 0	3/29/23 A	analyzed: 03/30/23
Chloride	3330	40.0	250	3190	53.7	80-120	4.05	20	M2

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

	WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
1	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	04/04/23 08:41

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



			an Energ					Bill To					La	b Us	e On	ly					TA	ΑT		EPA P	rogram
	•		leral #003				Attention: Ji	m Raley	14		Lab V	VO#			Job	Num	ber		1D	2D	3D	Sta	ndard	CWA	SDWA
Pro	ject N	lanager:	Gilbert N	1oreno		English Control	Address: 531	.5 Buena Vista Dr.			E3	33	111.				Sou					5 Da	ay TAT	CO-SESSIVE SERVICE	
Add	dress:	3122 Nat	tional Par	ks HWY			City, State, Z	ip: Carlsbad, NM, 8822	0		Name C						nd Me								RCRA
City	, Stat	e, Zip: Ca	rlsbad, N	IM, 88220)		Phone: 575-8	885-7502	1				by	_	Τ̈́	Г	Π			I	T				
Pho	one: 83	32-541-7	719				Email: iim.ra	ley@dvn.com			1		ORO							l				State	
Em	ail: de	von-tean	n@ensolu	um.com		100000000000000000000000000000000000000	Cost Center:				1		0/0	_			0.		_			l li	VM CO	UT AZ	TX
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Sar	mpled	Sampled	Matrix	Containers			Sample	וו	Nun		Depth(ft)		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	верос				Remarks	
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		a service de la constitución de la																							
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Add	litiona	al Instruc	tions:		•																				
I, (fie	ld sampl	er), attest to	the validity	and authent	icity of this s	ample. I am av	vare that tamperi	ng with or intentionally mislabe	lling the sa	mple l	ocation,	,			Sample	s requi	ring the	rmal pr	eservat	tion mu	st be red	ceived on	ice the day t	ney are sampl	ed or received
		C. C. P. C.		d fraud and n	may be grour	nds for legal ac	ion.	Sampled by: Gilbert More	no						packed	in ice a	at an av	g temp :	above (0 but le	ss than 6	°C on su	bsequent day	/s.	
Relin	quishe	d by: (Signa	iture)	Date		Time	Received b	y: (Signature)	Date		3 8 9 9 1	Time			32.0				La	ab Us	se On	ly			
Yocc	ly Edyte	e Konan	149	03	128123	09:00	Mich	elle Genvela	3-2	7.0	23	00	700	>	Rece	eived	on i	ce:	TY)/ N					
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M	rich	elle (micals	13.	28.23	1600	nou	enzo lei	3-	28-	23	(7	00		T1				T2				3		
Relin	gutshe	d by: (Signa	iture)	Date		Time	Received b	y: (Signature)	Date			Time									1800		1		
Torengy Jen 3-28-23 2300 DIENTED					03	29/2	3	6.	48		AVG	Tem	p°C	4.	0										
			- Solid, Sg -	Sludge, A - A		Other	1 0000	700'			Type:					-				V - \	/OA			ZEMB (CIRCLE)	
							other arranger	nents are made. Hazardou														port for	the analy	sis of the a	hove
samp	oles is a	pplicable o	nly to those	e samples re	eceived by	the laborator	y with this COC.	The liability of the laborato	ry is limite	d to t	the amo	ount p	paid fo	ront	he rer	ort.	tile (ciil	capei			5511101	che dilaly	JIJ OI LITE A	5076
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ent or disposed of at the client expense. The report for the analysis of the above for on the report.

Consider the client expense. The report for the analysis of the above for on the report.

Printed: 3/29/2023 8:57:44AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

	WDV France Coulded	D . D . 1 . 1			<u> </u>		
Client:	WPX Energy - Carlsbad	Date Received:	03/29/23 0	06:45		Work Order ID:	E303111
Phone:	(539) 573-4018	Date Logged In:	03/28/23 1	4:45		Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	04/04/23 1	7:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location ma	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: Co	<u>ourier</u>		
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes				
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted i i.e, 15 minute hold time, are not included in this disucssi		Yes	_		<u>Comment</u>	s/Resolution
Sample T	<u>urn Around Time (TAT)</u>						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>Cooler</u>						
7. Was a s	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
	were custody/security seals intact?		NA				
•	e sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples as minutes of sampling		Yes				
13. If no v	visible ice, record the temperature. Actual sample	e temperature: 4°0	<u>C</u>				
Sample C	<u>Container</u>						
14. Are a	queous VOC samples present?		No				
15. Are V	OC samples collected in VOA Vials?		NA				
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	trip blank (TB) included for VOC analyses?		NA				
18. Are no	on-VOC samples collected in the correct containers	?	Yes				
19. Is the a	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field Lab	<u>oel</u>						
20. Were	field sample labels filled out with the minimum inf	ormation:					
	ample ID?		Yes				
	ate/Time Collected?		Yes	_			
	ollectors name?		Yes				
	reservation		NT.				
	the COC or field labels indicate the samples were p	reserved?	No				
	ample(s) correctly preserved?		NA				
	filteration required and/or requested for dissolved r	netais?	No				
-	se Sample Matrix	_					
	the sample have more than one phase, i.e., multipha		No				
27. If yes,	does the COC specify which phase(s) is to be anal	yzed?	NA				
Subcontr	act Laboratory						
28. Are sa	imples required to get sent to a subcontract laborate	ory?	No				
29. Was a	subcontract laboratory specified by the client and i	f so who?	NA	Subcontract Lab:	: NA		
Client Ir	<u>struction</u>						

Date

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Pecos Federal #001Y

Work Order: E303112

Job Number: 01058-0007

Received: 3/29/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/4/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/4/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: Pecos Federal #001Y

Workorder: E303112

Date Received: 3/29/2023 6:45:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/29/2023 6:45:00AM, under the Project Name: Pecos Federal #001Y.

The analytical test results summarized in this report with the Project Name: Pecos Federal #001Y apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services

Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative

Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com



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Sample Summary

_				
ſ	WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	Reported:
١	5315 Buena Vista Dr	Project Number:	01058-0007	Reported.
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	04/04/23 08:43

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW10 0-4'	E303112-01A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 8:43:40AM

SW10 0-4' E303112-01

Austra	Result	Reporting Limit	Diluti	on Prepared	Analyzed	Notes
Analyte	Resuit	Limit	Diluti	on Prepared	Anaiyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: IY		Batch: 2313031
Benzene	ND	0.0250	1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250	1	03/29/23	03/29/23	
Toluene	ND	0.0250	1	03/29/23	03/29/23	
o-Xylene	ND	0.0250	1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500	1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene		97.5 %	70-130	03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	03/29/23	03/29/23	
Surrogate: Toluene-d8		104 %	70-130	03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: IY		Batch: 2313031
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene		97.5 %	70-130	03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	03/29/23	03/29/23	
Surrogate: Toluene-d8		104 %	70-130	03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: JL		Batch: 2313038
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/23	03/29/23	
Surrogate: n-Nonane		103 %	50-200	03/29/23	03/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: BA		Batch: 2313045
Chloride	3150	40.0	2	03/29/23	03/30/23	



WPX Energy - Carlsbad Project Name: Pecos Federal #001Y Reported:
5315 Buena Vista Dr Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 4/4/2023 8:43:40AM

Carlsbad NM, 88220		Project Manage	r: Gi	ilbert Moreno				4	1/4/2023 8:43:40AN
	Vo	olatile Organ	ic Compo	unds by EI	PA 82601	В			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313031-BLK1)							Prepared: 0	3/29/23 Ana	alyzed: 03/29/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.549		0.500		110	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			
LCS (2313031-BS1)							Prepared: 02	3/29/23 Ana	alyzed: 03/29/23
Benzene	2.31	0.0250	2.50		92.3	70-130			
Ethylbenzene	2.31	0.0250	2.50		92.2	70-130			
Toluene	2.36	0.0250	2.50		94.3	70-130			
o-Xylene	2.35	0.0250	2.50		93.8	70-130			
p,m-Xylene	4.65	0.0500	5.00		93.0	70-130			
Total Xylenes	7.00	0.0250	7.50		93.3	70-130			
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.562		0.500		112	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			
LCS Dup (2313031-BSD1)							Prepared: 02	3/29/23 Ana	alyzed: 03/29/23
Benzene	2.33	0.0250	2.50		93.2	70-130	0.992	23	
Ethylbenzene	2.36	0.0250	2.50		94.6	70-130	2.55	27	
Toluene	2.42	0.0250	2.50		96.7	70-130	2.53	24	
o-Xylene	2.38	0.0250	2.50		95.3	70-130	1.50	27	
o,m-Xylene	4.76	0.0500	5.00		95.2	70-130	2.31	27	
Total Xylenes	7.14	0.0250	7.50		95.2	70-130	2.04	27	
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.580		0.500		116	70-130			
· ·									

0.500

0.512

102

70-130



Surrogate: Toluene-d8

WPX Energy - Carlsbad Project Name: Pecos Federal #001Y Reported:
5315 Buena Vista Dr Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 4/4/2023 8:43:40AM

Nonhalogenated	Organics by	EPA	.8015D -	GRO

Anal	

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

Blank (2313031-BLK1)						Prepared: 03	3/29/23 A	nalyzed: 03/29/23
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: Bromofluorobenzene	0.488		0.500	97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.549		0.500	110	70-130			
Surrogate: Toluene-d8	0.520		0.500	104	70-130			
LCS (2313031-BS2)						Prepared: 03	3/29/23 A	nalyzed: 03/29/23
Gasoline Range Organics (C6-C10)	50.2	20.0	50.0	100	70-130			
Surrogate: Bromofluorobenzene	0.510		0.500	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.568		0.500	114	70-130			
Surrogate: Toluene-d8	0.521		0.500	104	70-130			
LCS Dup (2313031-BSD2)						Prepared: 03	3/29/23 A	nalyzed: 03/29/23
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	96.7	70-130	3.80	20	
Surrogate: Bromofluorobenzene	0.516		0.500	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.574		0.500	115	70-130			
Surrogate: Toluene-d8	0.525		0.500	105	70-130			



WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	·
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 8:43:40AM

23 8:43:40AN
alyst: JL
Notes
d: 03/29/23
d: 03/29/23
d: 03/29/23
d: 03/29/23



WPX Energy - Carlsbad		Project Name:		ecos Federal #	001Y				Reported:
5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager:		1058-0007 filbert Moreno					4/4/2023 8:43:40AM
		Anions	by EPA	300.0/9056 <i>A</i>	A				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313045-BLK1)							Prepared: 0	3/29/23	Analyzed: 03/30/23
Chloride	ND	20.0							
LCS (2313045-BS1)							Prepared: 0	3/29/23	Analyzed: 03/30/23
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2313045-MS1)				Source:	E303111-0	1	Prepared: 0	3/29/23	Analyzed: 03/30/23
Chloride	3460	40.0	250	3190	109	80-120			
Matrix Spike Dup (2313045-MSD1)				Source:	E303111-0	1	Prepared: 0	3/29/23	Analyzed: 03/30/23
Chloride	3330	40.0	250	3190	53.7	80-120	4.05	20	M2

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

ſ	WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
١	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
١	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	04/04/23 08:43

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client: \	NPX Perm	ian Energ	gy, LLC		Bill To	18			Western .	Lal	h Us	e On	lv					TA	\T	FDΔ	rogram
	Pecos Fed				Attention: Jim Raley			Lab V	NO#		-		Num	ber		1D	2D	3D	Standard	CWA	SDWA
Project	Manager:	Gilbert N	/loreno		Address: 5315 Buena Vista Dr.					SUE	2		38				120	133	5 Day TAT	CVVA	JUVA
. Address	:: 3122 Na	tional Pa	rks HWY		City, State, Zip: Carlsbad, NM, 88	220			-	24.85			sis an	_					Silkaning		RCRA
			IM, 88220		Phone: 575-885-7502				Π	þ		1					T	П			Henry
	832-541-7				Email: jim.raley@dvn.com			1	i	ORO										State	
	evon-tear				Cost Center: 1061084701			1		0/0				0.					NMI CC	UT AZ	TX
Collecte	d by: You	oly Edyte	Konan		Incident ID: nAPP2208846424		-	Ð	1	/DR	802	260	010	300		ž	×		Title CC	OI NE	+ 12
Time Sampled	Date Sampled	Matrix	No. of Containers		Sample ID		Lab Number	Depth(ft)		трн GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		верос	ВСБОС			Remarks	
10:30	3.27.23	S	1		SW10		1	0 - 4'								X	- 0				
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Addition	nal Instruc	tions:																			
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date or time	of collection	is considere	and authention d fraud and m	city of this sample. I lay be grounds for le	am aware that tampering with or intentionally mislagal action. Sampled by: Gilbert Me		ne sample l	ocation,	ř.										eived on ice the day °C on subsequent d		ed or received
Relinquish	ed by: (Signa	ature)	Date	Time	Received by: (Signature)		ate	.57.07	Time			NEW STREET			Viete S	1:	ah Us	e Onl	v	No.	
Yocoly Edy		HUL	= 031	28/23 09:	or michilas Canarela	_ 3	-28-	23	00	700		Rece	ived	on ic	۵.	-) N				
	ed by: (Signa	sture)	Date	Time	Received by: (Signature)	Da	ate		Time	1		nece	ived	OII IC		(, "				
Mich	lle L	eurs	10	1823 16	00 horeign fein	-	328	23	17	00		T1				T2			T3		
Relinquish	ed by: (Signa	ture	Date	Time	Received by: (Signature)		ate. /		Time					5-101	7						
non	eng	fer.	3-7	28-23 23	00 July 2005		3/29/2	3	6	:45		AVG	Tem	o°C	yr)					
Sample Mat	rix: 5-Soil, So	- Solid, Sg -		ueous, O - Other	000	1111	ontainer		- N. C.								V - V	'OA			
					nless other arrangements are made. Hazardo	ous same	les will be	e return	ned to	client	or di	spose	d of at	thecl	lient e	ynen	SP T	he ren	ort for the anal	isis of the a	hove
samples is	applicable o	nly to those	e samples re	ceived by the labo	ratory with this COC. The liability of the labora	atory is lin	mited to t	he amo	ount n	aid for	on th	he ren	ort	uic u	E	vhei	13C. I	ne rep	or croi the allal	נוופ איני נוופ א	DOVE



Printed: 3/29/2023 9:03:55AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	03/29/23	06:45		Work Order ID:	E303112
Phone:	(539) 573-4018	Date Logged In:	03/28/23	14:48		Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:		17:00 (4 day TAT)		88	
Chain of	Custody (COC)						
1. Does th	ne sample ID match the COC?		Yes				
2. Does th	ne number of samples per sampling site location ma	tch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes	_			
5. Were a	Il samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssis.					Comments	s/Resolution
Sample T	urn Around Time (TAT)						
	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	•						
	sample cooler received?		Yes				
	was cooler received in good condition?		Yes				
•	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?						
			No				
•	were custody/security seals intact?		NA				
12. Was the	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling		Yes				
13. If no v	visible ice, record the temperature. Actual sample	temperature: 4°0	<u>C</u>				
Sample C	Container	_					
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers	?	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lab	el						
	— field sample labels filled out with the minimum info	ormation:					
	ample ID?		Yes				
D	ate/Time Collected?		Yes				
C	ollectors name?		Yes				
	<u>reservation</u>						
	the COC or field labels indicate the samples were pr	reserved?	No				
	imple(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontr	act Laboratory						
	imples required to get sent to a subcontract laborato	rv?	No				
	subcontract laboratory specified by the client and it	•	NA	Subcontract Lab	· NA		
				Subcontract Luc	, 142 1		
Chent In	<u>istruction</u>						

Date

Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Pecos Federal #001Y

Work Order: E303113

Job Number: 01058-0007

Received: 3/29/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/4/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/4/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: Pecos Federal #001Y

Workorder: E303113

Date Received: 3/29/2023 6:45:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/29/2023 6:45:00AM, under the Project Name: Pecos Federal #001Y.

The analytical test results summarized in this report with the Project Name: Pecos Federal #001Y apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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West Texas Midland/Odessa Area Rayny Hagan

Technical Representative Office: 505-421-LABS(5227)

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Sample Summary

WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	Donoutoda
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	04/04/23 08:45

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
FS06 4'	E303113-01A Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
FS07 4'	E303113-02A Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
FS08 4'	E303113-03A Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
FS09 4'	E303113-04A Soil	03/27/23	03/29/23	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 8:45:18AM

FS06 4' E303113-01

Analyzed 03/29/23 03/29/23 03/29/23 03/29/23 03/29/23 03/29/23 03/29/23 03/29/23	Notes Batch: 2313031
03/29/23 03/29/23 03/29/23 03/29/23 03/29/23 03/29/23 03/29/23	
03/29/23 03/29/23 03/29/23 03/29/23 03/29/23 03/29/23 03/29/23	Batch: 2313031
03/29/23 03/29/23 03/29/23 03/29/23 03/29/23 03/29/23 03/29/23	
03/29/23 03/29/23 03/29/23 03/29/23 03/29/23 03/29/23	
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02/20/22	
03/29/23	
	Batch: 2313031
03/29/23	
03/29/23	
03/29/23	
03/29/23	
	Batch: 2313038
03/29/23	
03/29/23	
03/29/23	
	Batch: 2313045
03/30/23	
0 0	03/29/23 03/29/23 03/29/23 03/29/23 03/29/23 03/29/23

WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 8:45:18AM

FS07 4' E303113-02

		1000110 02					
Analyte	Result	Reporting Limit	Dilut	tion Pro	epared	Analyzed	Notes
	mg/kg	mg/kg		Analyst: IY	-1		Batch: 2313031
Volatile Organic Compounds by EPA 8260B Benzene	ND	0.0250	1		/29/23	03/29/23	Batch. 2313031
Ethylbenzene	ND ND	0.0250	1		/29/23	03/29/23	
Toluene	ND	0.0250	1		/29/23	03/29/23	
o-Xylene	ND	0.0250	1		/29/23	03/29/23	
p,m-Xylene	ND	0.0230	1		/29/23	03/29/23	
Total Xylenes	ND	0.0250	1		/29/23	03/29/23	
Surrogate: Bromofluorobenzene		96.7 %	70-130	03	/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		111 %	70-130	03	/29/23	03/29/23	
Surrogate: Toluene-d8		105 %	70-130	03	/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY			Batch: 2313031
Gasoline Range Organics (C6-C10)	ND	20.0	1	03	/29/23	03/29/23	
Surrogate: Bromofluorobenzene		96.7 %	70-130	03	/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		111 %	70-130	03	/29/23	03/29/23	
Surrogate: Toluene-d8		105 %	70-130	03	/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL			Batch: 2313038
Diesel Range Organics (C10-C28)	307	25.0	1	03	/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03	/29/23	03/29/23	
Surrogate: n-Nonane		102 %	50-200	03	/29/23	03/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA			Batch: 2313045
Chloride	877	20.0	1	03	/29/23	03/30/23	_



WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 8:45:18AM

FS08 4'

		E303113-03					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2313031
Benzene	ND	0.0250	1	1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250	1	1	03/29/23	03/29/23	
Toluene	ND	0.0250	1	1	03/29/23	03/29/23	
o-Xylene	ND	0.0250	1	1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500	1	1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250	1	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene		102 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		113 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8		107 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2313031
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene		102 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		113 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8		107 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2313038
Diesel Range Organics (C10-C28)	180	25.0	1	1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	03/29/23	03/29/23	
Surrogate: n-Nonane		105 %	50-200		03/29/23	03/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2313045
Chloride	656	20.0	1	1	03/29/23	03/30/23	



WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 8:45:18AM

FS09 4' E303113-04

		2000110 0.					
Analyte	Result	Reporting Limit	Dil	lution	Prepared	Analyzed	Notes
	mg/kg	mg/kg		Analyst		- I mary zea	Batch: 2313031
Volatile Organic Compounds by EPA 8260B Benzene	ND	0.0250		1	03/29/23	03/29/23	Batch. 2313031
Ethylbenzene	ND	0.0250		1	03/29/23	03/29/23	
Toluene	ND	0.0250		1	03/29/23	03/29/23	
o-Xylene	ND	0.0250		1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500		1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250		1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene		98.7 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		113 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8		105 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2313031
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene		98.7 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		113 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8		105 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: ЛL		Batch: 2313038
Diesel Range Organics (C10-C28)	250	25.0		1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0		1	03/29/23	03/29/23	
Surrogate: n-Nonane		102 %	50-200		03/29/23	03/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2313045
Chloride	779	20.0		1	03/29/23	03/30/23	



WPX Energy - Carlsbad Project Name: Pecos Federal #001Y Reported:
5315 Buena Vista Dr Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 4/4/2023 8:45:18AM

Carlsbad NM, 88220		Project Manage	r: Gi	ilbert Moreno				4	1/4/2023 8:45:18AN
	Vo	olatile Organ	ic Compo	unds by EI	PA 82601	В			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313031-BLK1)							Prepared: 03	3/29/23 Ana	alyzed: 03/29/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.549		0.500		110	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			
LCS (2313031-BS1)							Prepared: 03	3/29/23 Ana	alyzed: 03/29/23
Benzene	2.31	0.0250	2.50		92.3	70-130			
Ethylbenzene	2.31	0.0250	2.50		92.2	70-130			
Toluene	2.36	0.0250	2.50		94.3	70-130			
o-Xylene	2.35	0.0250	2.50		93.8	70-130			
p,m-Xylene	4.65	0.0500	5.00		93.0	70-130			
Total Xylenes	7.00	0.0250	7.50		93.3	70-130			
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.562		0.500		112	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			
LCS Dup (2313031-BSD1)							Prepared: 03	3/29/23 Ana	alyzed: 03/29/23
Benzene	2.33	0.0250	2.50		93.2	70-130	0.992	23	
Ethylbenzene	2.36	0.0250	2.50		94.6	70-130	2.55	27	
Toluene	2.42	0.0250	2.50		96.7	70-130	2.53	24	
o-Xylene	2.38	0.0250	2.50		95.3	70-130	1.50	27	
o,m-Xylene	4.76	0.0500	5.00		95.2	70-130	2.31	27	
Total Xylenes	7.14	0.0250	7.50		95.2	70-130	2.04	27	
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.580		0.500		116	70-130			
×									

0.500

0.512

102

70-130



Surrogate: Toluene-d8

WPX Energy - CarlsbadProject Name:Pecos Federal #001YReported:5315 Buena Vista DrProject Number:01058-0007Carlsbad NM, 88220Project Manager:Gilbert Moreno4/4/2023 8:45:18AM

Nonhalogenated	Organics b	v EPA	8015D -	GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

Blank (2313031-BLK1)						Prepared: 03	3/29/23 A	Analyzed: 03/29/23
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: Bromofluorobenzene	0.488		0.500	97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.549		0.500	110	70-130			
Surrogate: Toluene-d8	0.520		0.500	104	70-130			
LCS (2313031-BS2)						Prepared: 03	3/29/23 A	Analyzed: 03/29/23
Gasoline Range Organics (C6-C10)	50.2	20.0	50.0	100	70-130			
Surrogate: Bromofluorobenzene	0.510		0.500	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.568		0.500	114	70-130			
Surrogate: Toluene-d8	0.521		0.500	104	70-130			
LCS Dup (2313031-BSD2)						Prepared: 03	3/29/23 A	Analyzed: 03/29/23
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	96.7	70-130	3.80	20	
Surrogate: Bromofluorobenzene	0.516		0.500	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.574		0.500	115	70-130			
Surrogate: Toluene-d8	0.525		0.500	105	70-130			



WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/4/2023 8:45:18AM

Carlsbad NM, 88220		Project Manager	r: Gi	lbert Moreno					4/4/2023 8:45:18AN
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313038-BLK1)							Prepared: 0	3/29/23 A	nalyzed: 03/29/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	54.5		50.0		109	50-200			
LCS (2313038-BS1)							Prepared: 0	3/29/23 A	nalyzed: 03/29/23
Diesel Range Organics (C10-C28)	174	25.0	250		69.5	38-132			
urrogate: n-Nonane	50.5		50.0		101	50-200			
Matrix Spike (2313038-MS1)				Source:	E303114-0	02	Prepared: 0	3/29/23 A	nalyzed: 03/29/23
Diesel Range Organics (C10-C28)	186	25.0	250	ND	74.2	38-132			
urrogate: n-Nonane	49.4		50.0		98.7	50-200			
Matrix Spike Dup (2313038-MSD1)				Source:	E303114-0	02	Prepared: 0	3/29/23 A	nalyzed: 03/29/23
Diesel Range Organics (C10-C28)	171	25.0	250	ND	68.3	38-132	8.32	20	
'urrogate: n-Nonane	50.1		50.0		100	50-200			

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:	_	ecos Federal # 1058-0007	001Y				Reported:
Carlsbad NM, 88220		Project Manager		ilbert Moreno					4/4/2023 8:45:18AM
		Anions	by EPA 3	300.0/9056 <i>A</i>	4				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2313045-BLK1)							Prepared: 0	3/29/23 A	Analyzed: 03/30/23
Chloride	ND	20.0							
LCS (2313045-BS1)							Prepared: 0	3/29/23 A	Analyzed: 03/30/23
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2313045-MS1)				Source:	E303111-0	1	Prepared: 0	3/29/23 A	Analyzed: 03/30/23
Chloride	3460	40.0	250	3190	109	80-120			
Matrix Spike Dup (2313045-MSD1)				Source:	E303111-0	1	Prepared: 0	3/29/23 A	Analyzed: 03/30/23
Chloride	3330	40.0	250	3190	53.7	80-120	4.05	20	M2

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

ſ	WPX Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
l	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
١	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	04/04/23 08:45

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client: V	/PX Permi	an Energ	y, LLC			Bill To				Lak	o Us	e Onl	V				TA	ΑT		EPA P	rogram
Project:	Pecos Fed	leral #003	LY		Attent	ion: Jim Raley	1	Lab V	NO#			Job I		ber	1D	2D			andard	CWA	SDWA
Project I	Vlanager:	Gilbert N	loreno		- C - C - C - C - C - C - C - C - C - C	ss: 5315 Buena Vista Dr.		F2	03	113				000		1			Day TAT		
Address	3122 Nat	ional Par	ks HWY		City, St	tate, Zip: Carlsbad, NM, 88220)			000				d Metho							RCRA
City, Sta	te, Zip: Ca	rlsbad, N	M, 88220			: 575-885-7502			Π	þ					T	T	T				
Phone: 8	32-541-7	719			Email:	jim.raley@dvn.com	1	1		8										State	
Email: d	evon-tean	n@ensoli	ım.com			enter: 1061084701		1		30/0	-1			0.0	-				NM CO	UT AZ	TX
Collecte	d by: Yoc	oly Edyte	Konan		10000000000	nt ID: nAPP2208846424	11	£		3/0/	802	8260	010	300	Σ	×					
Time Sampled	Date Sampled	Matrix	No. of Containers			mple ID	Lab Number	Depth(ft)		ТРН GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	ВСБОС				Remarks	
10:50	3.27.23	S	1			FS06	1	4'			1				Х						
11:00	3.27.23	S	1			FS07	2	4'							Х						
11:10	3.27.23	S	1			FS08	3	4'							Х						
11:20	3.27.23	S	1	_ 1		FS09	4	4'							Х						
							13	2	8-	2	>_			_							, t
						heth															5
				-		The state of the s															
						2							- 4				5			Li i	
Addition	al Instruc	tions:		Markey Call For			III		-	l		L									
				city of this sample.		tampering with or intentionally mislabel Sampled by: Gilbert Moren		location	,										on ice the day t subsequent da		ed or received
Relinquish Yocoly Edy	ed by: (Signa te Konan	ature)	Date 03/	28/23 Time	Re-	ceived by: (Signature), Wiffull Gumells	Date 3-28-	23	_	900)	Rece	ived	on ice:		ab U	lse On I	ly			
mich	ed by: (Signa	Caush			600 0	Ceived by: (Signature)	Date 3-25-	23	1	00		T1			<u>T2</u>				T3		
Kelinquish	ed by: (Signa	Les	Date 3 ~z.	5-23 Time	300 Re	ceived by: (Signature)	03 29	13	Time	:45		AVG	Tem	p°C_	0.						
Sample Mat	rix: S Soff, So	- Solid, Sg -	Sludge, A - Ac	queous, O - Other _		000	Containe	r Type:	g - gla	ass, p						s, v -	VOA				
						rrangements are made. Hazardous								the clie	nt expe	ense.	The rep	port fo	or the analy	sis of the a	bove

envirotech 357

Printed: 3/29/2023 9:09:39AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	03/29/23	06:45		Work Order ID:	E303113
Phone:	(539) 573-4018	Date Logged In:	03/28/23	14:49		Logged In By:	Caitlin Christian
Email:	devon-team@ensolum.com	Due Date:		17:00 (4 day TAT)		86	
	<u> </u>						
Chain of	Custody (COC)						
1. Does th	ne sample ID match the COC?		Yes				
2. Does th	ne number of samples per sampling site location mate	ch the COC	Yes				
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, request	ted analyses?	Yes	· -			
5. Were a	Il samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssio					Comment	s/Resolution
Sample T	Turn Around Time (TAT)						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	Cooler						
7. Was a s	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
	, were custody/security seals intact?		NA				
•	e sample received on ice? If yes, the recorded temp is 4°C,	i.e., 6°±2°C	Yes				
121 1145 41	Note: Thermal preservation is not required, if samples are minutes of sampling		103				
13. If no	visible ice, record the temperature. Actual sample	temperature: 4°	С				
Sample C			_				
_	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lal							
	field sample labels filled out with the minimum infor	rmation:					
	ample ID?		Yes				
D	Pate/Time Collected?		Yes				
C	ollectors name?		Yes				
	<u>Preservation</u>						
	the COC or field labels indicate the samples were pre	eserved?	No				
	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved me	etals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	e?	No				
27. If yes	, does the COC specify which phase(s) is to be analyst	zed?	NA				
Subcontr	act Laboratory						
	amples required to get sent to a subcontract laborator	v?	No				
	subcontract laboratory specified by the client and if	-	NA	Subcontract Lab	o: NA		
	nstruction						
Chent II	isti uction						

Date

Report to:
Ashley Giovengo







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Pecos Federal #001Y

Work Order: E304065

Job Number: 01058-0007

Received: 4/13/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 4/19/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/19/23

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Pecos Federal #001Y

Workorder: E304065

Date Received: 4/13/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/13/2023 8:15:00AM, under the Project Name: Pecos Federal #001Y.

The analytical test results summarized in this report with the Project Name: Pecos Federal #001Y apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Sample Summary

_				
	Devon Energy - Carlsbad	Project Name:	Pecos Federal #001Y	Reported:
١	6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
	Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/19/23 08:12

Client Sample ID	Lab Sample ID Mar	rix Sampled	Received	Container
FS06 (@ 6')	E304065-01A Sc	il 04/11/23	04/13/23	Glass Jar, 2 oz.
FS07 (@ 6')	E304065-02A So	il 04/11/23	04/13/23	Glass Jar, 2 oz.
FS08 (@ 6')	E304065-03A So	il 04/11/23	04/13/23	Glass Jar, 2 oz.
FS09 (@ 6')	E304065-04A So	il 04/11/23	04/13/23	Glass Jar, 2 oz.
SW11 (@' - 6')	E304065-05A So	il 04/11/23	04/13/23	Glass Jar, 2 oz.
SW12 (@, 0' - 6')	E304065-06A Sc	il 04/11/23	04/13/23	Glass Jar, 2 oz.



Devon Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/19/2023 8:12:55AM

FS06 (@ 6') E304065-01

		E304003-01				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Anaryte	Resuit	Limit	Diluti	lon Prepared	Allalyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: SL		Batch: 2315063
Benzene	ND	0.0250	1	04/13/23	04/13/23	
Ethylbenzene	ND	0.0250	1	04/13/23	04/13/23	
Toluene	ND	0.0250	1	04/13/23	04/13/23	
o-Xylene	ND	0.0250	1	04/13/23	04/13/23	
p,m-Xylene	ND	0.0500	1	04/13/23	04/13/23	
Total Xylenes	ND	0.0250	1	04/13/23	04/13/23	
Surrogate: Bromofluorobenzene		99.0 %	70-130	04/13/23	04/13/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	04/13/23	04/13/23	
Surrogate: Toluene-d8		103 %	70-130	04/13/23	04/13/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: SL		Batch: 2315063
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/23	04/13/23	
Surrogate: Bromofluorobenzene		99.0 %	70-130	04/13/23	04/13/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	04/13/23	04/13/23	
Surrogate: Toluene-d8		103 %	70-130	04/13/23	04/13/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	analyst: JL		Batch: 2315064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/23	04/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/23	04/13/23	
Surrogate: n-Nonane		103 %	50-200	04/13/23	04/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: BA		Batch: 2315066
Chloride	375	200	10	04/13/23	04/13/23	



Devon Energy - CarlsbadProject Name:Pecos Federal #001Y6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo4/19/2023 8:12:55AM

FS07 (@ 6')

		E304065-02				
		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: SL		Batch: 2315063
Benzene	ND	0.0250	1	04/13/23	04/13/23	
Ethylbenzene	ND	0.0250	1	04/13/23	04/13/23	
Toluene	ND	0.0250	1	04/13/23	04/13/23	
o-Xylene	ND	0.0250	1	04/13/23	04/13/23	
p,m-Xylene	ND	0.0500	1	04/13/23	04/13/23	
Total Xylenes	ND	0.0250	1	04/13/23	04/13/23	
Surrogate: Bromofluorobenzene		97.3 %	70-130	04/13/23	04/13/23	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130	04/13/23	04/13/23	
Surrogate: Toluene-d8		104 %	70-130	04/13/23	04/13/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: SL		Batch: 2315063
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/23	04/13/23	
Surrogate: Bromofluorobenzene		97.3 %	70-130	04/13/23	04/13/23	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130	04/13/23	04/13/23	
Surrogate: Toluene-d8		104 %	70-130	04/13/23	04/13/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: JL		Batch: 2315064
Diesel Range Organics (C10-C28)	40.0	25.0	1	04/13/23	04/13/23	-
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/23	04/13/23	
Surrogate: n-Nonane		101 %	50-200	04/13/23	04/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: BA		Batch: 2315066
Chloride	486	200	10	04/13/23	04/13/23	



Devon Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/19/2023 8:12:55AM

FS08 (@ 6')

		E304065-03				
		Reporting				
Analyte	Result	Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: SL		Batch: 2315063
Benzene	ND	0.0250	1	04/13/23	04/13/23	
Ethylbenzene	ND	0.0250	1	04/13/23	04/13/23	
Toluene	ND	0.0250	1	04/13/23	04/13/23	
o-Xylene	ND	0.0250	1	04/13/23	04/13/23	
p,m-Xylene	ND	0.0500	1	04/13/23	04/13/23	
Total Xylenes	ND	0.0250	1	04/13/23	04/13/23	
Surrogate: Bromofluorobenzene		97.4 %	70-130	04/13/23	04/13/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	04/13/23	04/13/23	
Surrogate: Toluene-d8		102 %	70-130	04/13/23	04/13/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: SL		Batch: 2315063
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/23	04/13/23	
Surrogate: Bromofluorobenzene		97.4 %	70-130	04/13/23	04/13/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	04/13/23	04/13/23	
Surrogate: Toluene-d8		102 %	70-130	04/13/23	04/13/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL		Batch: 2315064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/23	04/13/23	_
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/23	04/13/23	
Surrogate: n-Nonane		101 %	50-200	04/13/23	04/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: BA		Batch: 2315066
Chloride	411	400	20	04/13/23	04/13/23	



Devon Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/19/2023 8:12:55AM

FS09 (@ 6') E304065-04

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: SL			Batch: 2315063
Benzene	ND	0.0250	1	ļ	04/13/23	04/13/23	
Ethylbenzene	ND	0.0250	1		04/13/23	04/13/23	
Toluene	ND	0.0250	1		04/13/23	04/13/23	
o-Xylene	ND	0.0250	1		04/13/23	04/13/23	
p,m-Xylene	ND	0.0500	1		04/13/23	04/13/23	
Total Xylenes	ND	0.0250	1		04/13/23	04/13/23	
Surrogate: Bromofluorobenzene		97.6 %	70-130		04/13/23	04/13/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		04/13/23	04/13/23	
Surrogate: Toluene-d8		101 %	70-130		04/13/23	04/13/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: SL			Batch: 2315063
Gasoline Range Organics (C6-C10)	ND	20.0	1	Į.	04/13/23	04/13/23	
Surrogate: Bromofluorobenzene		97.6 %	70-130		04/13/23	04/13/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		04/13/23	04/13/23	
Surrogate: Toluene-d8		101 %	70-130		04/13/23	04/13/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: JL			Batch: 2315064
Diesel Range Organics (C10-C28)	ND	25.0	1		04/13/23	04/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	<u> </u>	04/13/23	04/13/23	
Surrogate: n-Nonane		102 %	50-200		04/13/23	04/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: BA			Batch: 2315066
Chloride	631	20.0	1		04/13/23	04/13/23	



Devon Energy - CarlsbadProject Name:Pecos Federal #001Y6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo4/19/2023 8:12:55AM

SW11 (@' - 6')

		E304065-05					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: SL		Batch: 2315063
Benzene	ND	0.0250		1	04/13/23	04/13/23	
Ethylbenzene	ND	0.0250		1	04/13/23	04/13/23	
Toluene	ND	0.0250		1	04/13/23	04/13/23	
o-Xylene	ND	0.0250		1	04/13/23	04/13/23	
p,m-Xylene	ND	0.0500		1	04/13/23	04/13/23	
Total Xylenes	ND	0.0250		1	04/13/23	04/13/23	
Surrogate: Bromofluorobenzene		93.8 %	70-130		04/13/23	04/13/23	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130		04/13/23	04/13/23	
Surrogate: Toluene-d8		102 %	70-130		04/13/23	04/13/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: SL		Batch: 2315063
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/13/23	04/13/23	
Surrogate: Bromofluorobenzene		93.8 %	70-130		04/13/23	04/13/23	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130		04/13/23	04/13/23	
Surrogate: Toluene-d8		102 %	70-130		04/13/23	04/13/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: Л		Batch: 2315064
Diesel Range Organics (C10-C28)	ND	25.0		1	04/13/23	04/13/23	
Oil Range Organics (C28-C36)	ND	50.0		1	04/13/23	04/13/23	
Surrogate: n-Nonane		106 %	50-200		04/13/23	04/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2315066
Chloride	525	20.0		1	04/13/23	04/13/23	



Devon Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/19/2023 8:12:55AM

SW12 (@ 0' - 6')

E304065-06 Reporting Analyte Limit Dilution Analyzed Result Prepared Notes Analyst: SL Batch: 2315063 mg/kg mg/kg Volatile Organic Compounds by EPA 8260B 04/13/23 ND 0.0250 04/13/23 Benzene 1 04/13/23 04/13/23 Ethylbenzene ND 0.0250ND 0.0250 04/13/23 04/13/23 Toluene 1 04/13/23 04/13/23 o-Xylene ND 0.025004/13/23 04/13/23 ND 0.0500 1 p,m-Xylene 04/13/23 04/13/23 1 Total Xylenes ND 0.0250 04/13/23 04/13/23 Surrogate: Bromofluorobenzene 93.3 % 70-130 Surrogate: 1,2-Dichloroethane-d4 98.1 % 70-130 04/13/2304/13/23 Surrogate: Toluene-d8 103 % 70-130 04/13/2304/13/23 Nonhalogenated Organics by EPA 8015D - GRO mg/kg mg/kg Analyst: SL Batch: 2315063 ND 1 04/13/23 04/13/23 20.0 Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene 93.3 % 04/13/23 04/13/23 70-130 04/13/23 Surrogate: 1,2-Dichloroethane-d4 98.1 % 70-130 04/13/23 Surrogate: Toluene-d8 04/13/23 04/13/23 103 % 70-130 mg/kg Analyst: RAS Batch: 2315064 mg/kg Nonhalogenated Organics by EPA 8015D - DRO/ORO 04/13/23 ND 25.0 1 04/13/23 Diesel Range Organics (C10-C28) ND 50.0 1 04/13/23 04/13/23 Oil Range Organics (C28-C36) 105 % 50-200 04/13/2304/13/23 Surrogate: n-Nonane

mg/kg

100

Analyst: BA

04/13/23

04/13/23

5

mg/kg

400

Batch: 2315066

Anions by EPA 300.0/9056A

Chloride

Devon Energy - Carlsbad Pecos Federal #001Y Project Name: Reported: Project Number: 6488 7 Rivers Hwy 01058-0007 Artesia NM, 88210 Project Manager: Ashley Giovengo 4/19/2023 8:12:55AM **Volatile Organic Compounds by EPA 8260B** Analyst: SL Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2315063-BLK1) Prepared: 04/13/23 Analyzed: 04/13/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.508 0.500 102 70-130 Surrogate: 1,2-Dichloroethane-d4 0.483 0.500 96.6 70-130 0.500 101 70-130 Surrogate: Toluene-d8 0.507 LCS (2315063-BS1) Prepared: 04/13/23 Analyzed: 04/13/23 2.37 0.0250 2.50 94.8 70-130 Benzene 2.32 2.50 93.0 70-130 Ethylbenzene 0.0250 2.31 0.0250 2.50 92.3 70-130 70-130 2.41 0.0250 2.50 96.6 o-Xylene 4.77 5.00 95.3 70-130 p,m-Xylene 0.0500 7.18 0.0250 7.50 95.8 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.493 0.500 98.5 70-130 0.500 99.6 70-130 Surrogate: 1,2-Dichloroethane-d4 0.498 70-130 Surrogate: Toluene-d8 0.498 0.500 Matrix Spike (2315063-MS1) Source: E304065-04 Prepared: 04/13/23 Analyzed: 04/13/23 2.44 0.0250 2.50 ND 97.7 48-131 45-135 Ethylbenzene 2.38 0.0250 2.50 ND 95.1 48-130 Toluene 2.40 0.0250 2.50 ND 95.9 2.48 0.0250 2.50 ND 99.3 43-135 o-Xylene 4.89 5.00 ND 97.8 43-135 p,m-Xylene 0.0500 Total Xylenes 7.37 0.0250 7.50 ND 98.3 43-135 98.1 Surrogate: Bromofluorobenzene 0.491 0.500 70-130 0.492 0.500 98.3 70-130 Surrogate: 1,2-Dichloroethane-d4 0.500 70-130 0.504 Surrogate: Toluene-d8 Matrix Spike Dup (2315063-MSD1) Source: E304065-04 Prepared: 04/13/23 Analyzed: 04/13/23 2.44 0.0250 2.50 ND 97.6 48-131 0.164 23 0.0250 2.50 ND 96.8 45-135 1.73 27 Ethylbenzene ND 97.2 48-130 1.31 24 2.43 2.50 Toluene 0.0250 o-Xylene 2.50 0.0250 2.50 ND 100 43-135 0.762 27

5.00

7.50

0.500

0.500

0.500

0.0500

0.0250

ND

ND

98.5

99.0

99 3

99.7

101

43-135

43-135

70-130

70-130

70-130

0.662

0.696

27

27



p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

4.92

7.43

0.497

0.499

0.507

Devon Energy - CarlsbadProject Name:Pecos Federal #001YReported:6488 7 Rivers HwyProject Number:01058-0007Artesia NM, 88210Project Manager:Ashley Giovengo4/19/20238:12:55AM

Nonhalogenated Organics l	by EPA 8015D - GRO
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Ana	lvst.	SI

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		\Box
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	

	Resuit	Limit	LCVCI	Result	Rec	Lillius	ICI D	Lillin	·
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2315063-BLK1)							Prepared: 0	4/13/23	Analyzed: 04/13/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			
LCS (2315063-BS2)							Prepared: 0	4/13/23	Analyzed: 04/13/23
Gasoline Range Organics (C6-C10)	47.6	20.0	50.0	<u> </u>	95.2	70-130			
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.7	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			
Matrix Spike (2315063-MS2)				Source:	E304065-	04	Prepared: 0	4/13/23	Analyzed: 04/13/23
Gasoline Range Organics (C6-C10)	49.2	20.0	50.0	ND	98.3	70-130			
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			
Matrix Spike Dup (2315063-MSD2)				Source:	E304065-	04	Prepared: 0	4/13/23	Analyzed: 04/13/23
Gasoline Range Organics (C6-C10)	47.3	20.0	50.0	ND	94.6	70-130	3.85	20	
	17.5								
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4			0.500 0.500		101 97.1	70-130 70-130			



Devon Energy - Carlsbad	Project Name:	Pecos Federal #001Y	Reported:
6488 7 Rivers Hwy Artesia NM, 88210	Project Number: Project Manager:	01058-0007 Ashley Giovengo	4/19/2023 8:12:55AM

Artesia NM, 88210		Project Manager	r: As	hley Gioveng	go			4	/19/2023 8:12:55AI
	Nonha	logenated Or	ganics by l	EPA 8015I	D - DRO	/ORO	_		Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2315064-BLK1)							Prepared: 0	4/13/23 An	alyzed: 04/13/23
riesel Range Organics (C10-C28)	ND	25.0							
vil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	53.4		50.0		107	50-200			
.CS (2315064-BS1)							Prepared: 0	4/13/23 An	alyzed: 04/13/23
riesel Range Organics (C10-C28)	259	25.0	250		104	38-132			
urrogate: n-Nonane	51.2		50.0		102	50-200			
Matrix Spike (2315064-MS1)				Source:	E304065-	06	Prepared: 0	4/13/23 An	alyzed: 04/13/23
tiesel Range Organics (C10-C28)	270	25.0	250	ND	108	38-132			
urrogate: n-Nonane	49.3		50.0		98.5	50-200			
Matrix Spike Dup (2315064-MSD1)				Source:	E304065-	06	Prepared: 0	4/13/23 An	alyzed: 04/13/23
tiesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132	0.574	20	
urrogate: n-Nonane	49.3		50.0		98.7	50-200			



Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		ecos Federal #	001Y				Reported:	
Artesia NM, 88210		Project Manager:	A	shley Gioveng	50				4/19/2023 8:12:55AM	I
		Anions	by EPA	300.0/9056 <i>A</i>	\				Analyst: BA	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2315066-BLK1)							Prepared: 04	4/13/23	Analyzed: 04/13/23	
Chloride	ND	20.0								
LCS (2315066-BS1)							Prepared: 04	4/13/23	Analyzed: 04/13/23	
Chloride	255	20.0	250		102	90-110				
Matrix Spike (2315066-MS1)				Source:	E304065-0)1	Prepared: 04	4/13/23	Analyzed: 04/13/23	
Chloride	623	200	250	375	99.4	80-120				
Matrix Spike Dup (2315066-MSD1)				Source:	E304065-0)1	Prepared: 04	4/13/23	Analyzed: 04/13/23	
Chloride	629	200	250	375	102	80-120	0.934	20		

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

	Devon Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
١	6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
	Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/19/23 08:12

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client:	Devon	Ene	rau			o Bi	II To		RESE.	(Sub-	La	h H	se On	lv	DE ETE				TA	AT.		FPA P	rogram
Project:	Peros 1	ederal	CB#	1×	Att	cention: Jim Ri	aley.		Lab	WO#	Sin a		Job I	Num	ber		1D	2D	3D		andard	CWA	SDWA
	Manager:				Ad	dress: > > / > P	yeur Visto	Du	F?	304	065	5	010	58	· 0a	57	X						
Address	31221	Vation	al Pa	Ky Huy	Cit	y, State, Zip	Isbad Wi	8876					Analy	sis ar	nd Me	thod							RCRA
City, Sta	te, Zip	186k	ad N	M 88220	Ph	one: 575-65	79-159	F		yd C													
Phone:	75-	988-	005	5	Em	nail: Jim. Muleu	1 @dun.c	on		/ORC							722 1					State	
Report of		1000	ENSOL	am. con			184			DRO	8021	8260	10	300.0			Σ		×		NM CO	UT AZ	TX
Time	Date			T				Lab		SRO/	λo	by 82	ls 60	ide 3			20						
Sampled	Sampled	Matrix	No. of Containers	Sample ID		N. C.		Number		TPH GRO/DRO/ORO by 8015	BTEX	VOC by	Metals 6010	Chloride			BGDOC		GDOC			Remarks	2
4/11/2	11:30	Soil		F5061	(W) 6					¥	7			X									
	11:40			PSOF	(@ E	3()		2			İ												
	11:50			1-508	(@6	()		3															
	12:00			FS09(@6	()		4															
	12:55			SWII (@	9'-6')		5															
1	12:45	1	1	SWIZ	100	0'6')		6		1	1			1									
								4															
						/																	
							3.5																
Addition	nal Instruct	tions: Ke	upt c	on the F	Phase	cc agion	very o le	EHSOL	lun	.001	40	ud	الا	m.V	rale	ye	99	VIL	100	n	ou v	esul	fs
I, (field sam	pler), attest to	the validity a	and authent	icity of this sample.	I am aware	that tampering with or int	tentionally mislabellin		locati	on,			Sample	s requi	ring ther	nal pre	servat	ion mu	st be rec	ceived o	on ice the day to	hey are sampl	
Relinguist	ed by (Signa	ture)	Date	may be grounds for		Received by: (Signatu		Date	-	Time		_	521094						e On				
Mel	ed by: Signa	,	4/	12/23 09	02:1	Michelle	4 2	4-12-2	3	91	8		Rece	eived	on ic	e:) / N		,			
Mell	ed by: (Signa	4-10/1	Date 14-		500	Received by: (Signatu	1161	4-12-		Time	00)	T1				Γ2		4		T3		
Relinquist	ed by (Signa	turb	Date 4	-12-23 Time	145	Received by: (Signatu	Pat	9/13/2	3	Time	15		AVG	Tem	np °C_	4.0)						
Sample Ma	trix: S - Soil, Sd	- Solid, Sg - S	Sludge, A - A	queous, O - Other		10000		Container	Туре		-							ss, v -	VOA			-	
Note: San	ples are disc	arded 30 da	ys after re	sults are reported	d unless oth	ner arrangements are m	nade. Hazardous s													eport	for the ana	lysis of the	above



envirotects.

The report for the analysis of the above rt.

Page 315 and a control of the analysis of the above rt.

samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Printed: 4/13/2023 10:28:04AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Devon Energy - Carlsbad	Date Received:	04/13/23	08:15		Work Order ID:	E304065
Phone:	(505) 382-1211	Date Logged In:	04/12/23	16:43		Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	04/13/23	17:00 (0 day TAT)			
C1 . 0	16 4 L (606)						
	Custody (COC)		37				
	he sample ID match the COC? he number of samples per sampling site location mat	oh the COC	Yes				
	amples dropped off by client or carrier?	ch the COC	Yes				
	• • •	4-419	Yes	Carrier: <u>C</u>	<u>Courier</u>		
	e COC complete, i.e., signatures, dates/times, reques ill samples received within holding time?	ted analyses?	Yes				
3. Were a	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic		Yes			Comment	s/Resolution
Sample 7	<u> Furn Around Time (TAT)</u>						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample (<u>Cooler</u>						
7. Was a	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	, were custody/security seals intact?		NA				
	ne sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
	Container	temperature. 1	<u>~</u>				
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?	,	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field La	· · · · · · · · · · · · · · · · · · ·	icis concetea.	103				
•	field sample labels filled out with the minimum info	rmation:					
	ample ID?		Yes				
Г	Pate/Time Collected?		Yes				
C	Collectors name?		No				
	Preservation_						
	the COC or field labels indicate the samples were pr	eserved?	No				
	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
	ase Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	se?	No				
27. If yes	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subconti	ract Laboratory						
	amples required to get sent to a subcontract laborator	y?	No				
	a subcontract laboratory specified by the client and if	-	NA	Subcontract Lab	: NA		
Client I	nstruction_						

Page 17 of 17

Report to:
Ashley Giovengo







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Pecos Federal #001Y

Work Order: E304082

Job Number: 01058-0007

Received: 4/17/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/18/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/18/23

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Pecos Federal #001Y

Workorder: E304082

Date Received: 4/17/2023 9:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/17/2023 9:30:00AM, under the Project Name: Pecos Federal #001Y.

The analytical test results summarized in this report with the Project Name: Pecos Federal #001Y apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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Technical Representative/Client Services

Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Rayny Hagan Technical Representative

West Texas Midland/Odessa Area

Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com



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Sample Summary

_				
Γ	Devon Energy - Carlsbad	Project Name:	Pecos Federal #001Y	Reported:
l	6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
l	Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/18/23 11:21

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
FS09 - 9.5'	E304082-01A Soil	04/14/23	04/15/23	Glass Jar, 2 oz.



Devon Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/18/2023 11:21:59AM

FS09 - 9.5' E304082-01

		E304082-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Allaryte	Kesuit	Limit	Dilution	Trepared	Anaryzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2316001
Benzene	ND	0.0250	1	04/17/23	04/17/23	
Ethylbenzene	ND	0.0250	1	04/17/23	04/17/23	
Toluene	ND	0.0250	1	04/17/23	04/17/23	
o-Xylene	ND	0.0250	1	04/17/23	04/17/23	
p,m-Xylene	ND	0.0500	1	04/17/23	04/17/23	
Total Xylenes	ND	0.0250	1	04/17/23	04/17/23	
Surrogate: 4-Bromochlorobenzene-PID		91.4 %	70-130	04/17/23	04/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2316001
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/23	04/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.1 %	70-130	04/17/23	04/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: JL		Batch: 2316005
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/23	04/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/23	04/17/23	
Surrogate: n-Nonane		95.2 %	50-200	04/17/23	04/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2316007
Chloride	306	100	5	04/17/23	04/17/23	



		<u> </u>	<u> </u>	iry Dat					
Devon Energy - Carlsbad		Project Name:		ecos Federal #	±001Y				Reported:
6488 7 Rivers Hwy		Project Number:	0	1058-0007					
Artesia NM, 88210		Project Manager:	A	shley Gioveng	go			4/18	3/2023 11:21:59AM
		Volatile O	rganics	by EPA 802	21B				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2316001-BLK1)							Prepared: 0	4/17/23 Analy	zed: 04/17/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			
LCS (2316001-BS1)							Prepared: 0	4/17/23 Analy	zed: 04/17/23
Benzene	4.55	0.0250	5.00		90.9	70-130			
Ethylbenzene	4.53	0.0250	5.00		90.7	70-130			
Toluene	4.66	0.0250	5.00		93.1	70-130			
p-Xylene	4.62	0.0250	5.00		92.5	70-130			
o,m-Xylene	9.26	0.0500	10.0		92.6	70-130			
Total Xylenes	13.9	0.0250	15.0		92.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			
Matrix Spike (2316001-MS1)				Source:	E304082-0)1	Prepared: 0	4/17/23 Analy	zed: 04/17/23
Benzene	4.74	0.0250	5.00	ND	94.8	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.4	61-133			
Toluene	4.85	0.0250	5.00	ND	97.0	61-130			
o-Xylene	4.82	0.0250	5.00	ND	96.3	63-131			
o,m-Xylene	9.61	0.0500	10.0	ND	96.1	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	96.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.3	70-130			
Matrix Spike Dup (2316001-MSD1)				Source:	E304082-0)1	Prepared: 0	4/17/23 Analy	zed: 04/17/23
Benzene	4.51	0.0250	5.00	ND	90.1	54-133	5.05	20	
Ethylbenzene	4.49	0.0250	5.00	ND	89.9	61-133	4.89	20	
Toluene	4.61	0.0250	5.00	ND	92.2	61-130	5.06	20	
p-Xylene	4.58	0.0250	5.00	ND	91.6	63-131	5.04	20	
p,m-Xylene	9.16	0.0500	10.0	ND	91.6	63-131	4.83	20	
Total Xylenes	13.7	0.0250	15.0	ND	91.6	63-131	4.90	20	

93.6

70-130



Surrogate: 4-Bromochlorobenzene-PID

Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name: Project Number:	Pecos Federal #001Y 01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/18/2023 11:21:59AM

Artesia NM, 88210		Project Manage	r: As	hley Gioveng	go			4/1	8/2023 11:21:59AN
	Nor	halogenated	Organics l	by EPA 80	15D - Gl	RO			Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2316001-BLK1)							Prepared: 0	4/17/23 Ana	lyzed: 04/17/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			
LCS (2316001-BS2)							Prepared: 0	4/17/23 Ana	lyzed: 04/17/23
Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.7	70-130			
Matrix Spike (2316001-MS2)				Source:	E304082-	01	Prepared: 0	4/17/23 Ana	lyzed: 04/17/23
Gasoline Range Organics (C6-C10)	50.6	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.1	70-130			
Matrix Spike Dup (2316001-MSD2)				Source:	E304082-	01	Prepared: 0	4/17/23 Ana	lyzed: 04/17/23
Gasoline Range Organics (C6-C10)	45.9	20.0	50.0	ND	91.9	70-130	9.70	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.87		8.00		98.4	70-130			



Devon Energy - Carlsbad	Project Name:	Pecos Federal #001Y	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	-
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/18/2023 11:21:59AM

Artesia NM, 88210		Project Manage	r: As	shley Gioveng	go			4/	18/2023 11:21:59AN	
	Nonhalogenated Organics by EPA 8015D - DRO/ORO						Analyst: JL			
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2316005-BLK1)				Prepared: 04/17/23 Analyzed: 04/17/23						
Diesel Range Organics (C10-C28)	ND	25.0								
Dil Range Organics (C28-C36)	ND	50.0								
urrogate: n-Nonane	43.9		50.0		87.9	50-200				
LCS (2316005-BS1)							Prepared: 0	4/17/23 Ana	lyzed: 04/18/23	
Diesel Range Organics (C10-C28)	249	25.0	250		99.5	38-132				
urrogate: n-Nonane	51.1		50.0		102	50-200				
Matrix Spike (2316005-MS1)				Source:	Source: E304082-01			Prepared: 04/17/23 Analyzed: 04/17/23		
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132				
urrogate: n-Nonane	83.0		50.0		166	50-200				
Matrix Spike Dup (2316005-MSD1)	Source: E304082-01		01	Prepared: 04/17/23 Analyzed: 04/17/23						
Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	38-132	3.47	20		
'urrogate: n-Nonane	70.9		50.0		142	50-200				



QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		ecos Federal # 1058-0007	4001Y				Reported:
Artesia NM, 88210		Project Manager	: A	shley Gioveng	go				4/18/2023 11:21:59AM
		Anions	by EPA	300.0/9056 <i>E</i>	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2316007-BLK1)							Prepared: 0	4/17/23 A	nalyzed: 04/17/23
Chloride	ND	20.0							
LCS (2316007-BS1)							Prepared: 0	4/17/23 A	nalyzed: 04/17/23
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2316007-MS1)				Source:	E304082-	01	Prepared: 0	4/17/23 A	nalyzed: 04/17/23
Chloride	650	100	250	306	137	80-120			M2
Matrix Spike Dup (2316007-MSD1)				Source:	E304082-	01	Prepared: 0	4/17/23 A	nalyzed: 04/17/23
Chloride	660	100	250	306	141	80-120	1.49	20	M2

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

ſ	Devon Energy - Carlsbad	Project Name:	Pecos Federal #001Y	
l	6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
	Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/18/23 11:21

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information

age	_ of	
EPA Pr	ogram]
CWA	SDWA	1

Client: Devon Energy.	Bill To	8			Lab l	lse (Only				Т	AT	EPA P	rogram
Project: CCOS Federal #0014	Attention: Sim Raley	_ [_ab V	NO#		-	b Nun			LD 21				SDWA
Project Manager: ASNICY GOVERS HAY	Address: 5315 Bulng Vista	Dr	Ę3	040	387	101		5:00		X		I Common to the common to the	1000	
Address: 3122 National Parks Huy City, State, ZipCar (Spad, Nm 88720)	City, State, Zip(Ar) Shad, Nr Phone: 575-454-751	1882	,0	-	_	Ana	alysis a	nd Me	thod	_		_		RCRA
Phone: 575 -188 - 0055	Email: in raley adv	2 -< 00	m	2	-			U					State	
Email: asiovenso a ensolum.com	Citiali.		, 80±	/ 801	1 0		0.0	0				NM	O UT AZ	TX
Report due by:			RO by	30 by	8260	6010	e 300	0	- 1			X		
Time Sampled Date Sampled Matrix No. of Containers Sample ID	N	Lab umber	DRO/ORO by	GRO/DRO by 8015	BTEX by 8021 VOC by 8260	Metals 6010	Chloride 300.0	66					Remarks	
11:00 + 114/3 5 1jar FS09-	9.5'	1						X					1.7	
													-	
						T.								
													:	
						T								
				+	+	+	+		+	1				
			-				+							
Additional Instructions: Preservedon 10	e: Please ce jim.r	aley	1 .	0	dur	1 - 0	con	7	Za	910	ver	30 00	nsilun	7 · con
I, (field sampler), attest to the validity and authenticity of this sample. I am awar	e that tampering with or intentionally mislabelling the	sample loca	ation.			Sam	ples requ	iring ther	rmal pres	ervation	must be re	eceived on ice the	day they are samp	ed or received
date on time of collection is considered fraud and may be grounds for legal action		•				pack	ed in ice	at an avg	temp ab	ove 0 bu	t less than	6 °C on subseque	nt days.	
Refinduished by: (Stenature) Date U/22 Time U/22 14' 0'	Received by: (Signature)	te 1-14-J	יטו	Time 14	203	Re	ceive	d on ic	e: (Lab	Use O	nly		
Relinquished by: (Signatuse) Migual 444-23 Time 444-23 Time	Received by: (Signature) Dat	te 14-2	23	Time 5	:50	T1			_ I	2		<u>T3</u>		
Relinquished by: (Signature) Date Time	Received by: (Signature)	·17.7	73	ime :	30	AV	G Ten	np °C_	4					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other		ntainer T				ooly/	plastic	ag - a						A STATE OF THE STA
Note: Samples are discarded 30 days after results are reported unless of samples is applicable only to those samples received by the laboratory w								at the c	lient ex	kpense.	The re	eport for the a	nalysis of the a	bove



Printed: 4/17/2023 10:37:25AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Devon Energy - Carlsbad	Date Received:	04/17/23	09:30		Work Order ID:	E304082
Phone:	(505) 382-1211	Date Logged In:	04/14/23	16:40		Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:		17:00 (0 day TAT)			
Chain of	Custody (COC)						
1. Does th	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location ma	tch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes				
5. Were a	Il samples received within holding time?	·	Yes				
	Note: Analysis, such as pH which should be conducted in					Comment	s/Resolution
	i.e, 15 minute hold time, are not included in this disucssi	on.				<u>comments</u>	5/Resolution
	COC indicate at a dead TAT and Found it ad TAT?		37				
	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C			37				
	sample cooler received?		Yes				
•	was cooler received in good condition?		Yes				
	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
12. Was th	e sample received on ice? If yes, the recorded temp is 4°C,		Yes				
	Note: Thermal preservation is not required, if samples ar	e received w/i 15					
13 Ifno	minutes of sampling visible ice, record the temperature. Actual sample	tamparatura: 10	C				
		temperature. 4	<u> </u>				
	Container queous VOC samples present?		Nie				
	OC samples collected in VOA Vials?		No NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
			NA				
	trip blank (TB) included for VOC analyses?	9					
	on-VOC samples collected in the correct containers appropriate volume/weight or number of sample contain		Yes				
		ners conecteur	Yes				
Field Lat	field sample labels filled out with the minimum info	rmation					
	ample ID?	illiation.	Yes				
	ate/Time Collected?		Yes				
C	ollectors name?		No				
Sample P	reservation_						
21. Does	the COC or field labels indicate the samples were pr	reserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes	does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontr	act Laboratory						
	amples required to get sent to a subcontract laborato	rv?	No				
	subcontract laboratory specified by the client and is	-	NA	Subcontract Lab	o: na		
Chent II	<u>istruction</u>						

Signature of client authorizing changes to the COC or sample disposition.



APPENDIX C

Photographic Log

Photographic Log

Devon Energy
Pecos Federal #001Y
Incident Number nAPP2208846424
Ensolum Job Number: 03A1987014



Photograph 1 Date: 03/24/2022

Description: Spill Location, Facing North



Photograph 2 Date: 03/24/2022

Description: Overspray, Facing NW



Photograph 3 Date: 03/24/2023

Description: Overspray in pasture, Facing North



Photograph 4 Date: 03/24/223

Description: Overspray in pasture, Facing SW

Photographic Log

Devon Energy
Pecos Federal #001Y
Incident Number nAPP2208846424
Ensolum Job Number: 03A1987014





Photograph 5 Date: 05/18/2022

Description: Delineation activities, Facing NW

Photograph 6 Date: 05/18/2022

Description: Delineation activities, Facing South



Photograph 7
Date: 05/18/2022
Description: Delineation activities, Facing South

Date & Time. Wed. May 18. 2022 14:52:54 MDT
Position. +032 007238 /-103 96:5722 '±14.3ft)
Altitude. 2892R 1:13.1ft)
Datum. WGS-84
Zermuth/Bearing. 126 'S54E 22:40mils True (±12.)
Elevation Angle: +14.6
Horizon Angle: +03.0
Zeom. 0.5X
pH 12

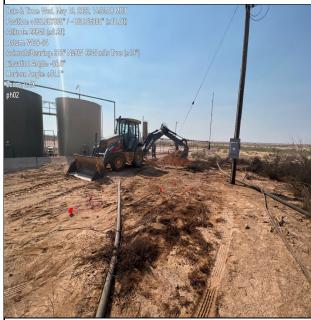
Photograph 8 Date: 05/18/2022

Description: Delineation activities, Facing SE

Photographic Log

Devon Energy Pecos Federal #001Y

Ensolum Job Number: 03A1987014



Ensolum Job Number: U3A1987014

Date & Time. Thu. May 19. 2022. 09.45.45 MDT

Position: +032.006955 / -103.965294* (±1981.7ft)

Altitude: 2884ft (±57.4ft)

Datum: W65-84

Azimuth: Bearing: 330* N30W 5867mits True (±13.1)

Elevation Angle: -10.9*

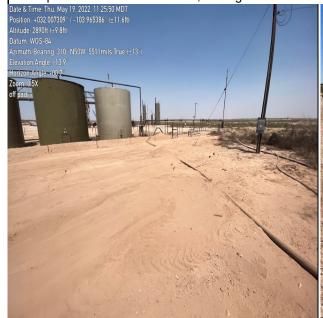
Honizon Angle: -00.4*

Zoom; 0.5.X.

off pad

Photograph 9 Date: 05/18/2022

Description: Delineation activities, Facing NW



Photograph 10 Date: 05/19/2022

Description: Delineation activities, Facing NW



Photograph 11 Date: 05/19/2022

Description: Post delineation activities, Facing NW

Photograph 12 Date: 11/10/2022

Description: Delineation activities, Facing East

Photographic Log

Devon Energy Pecos Federal #001Y Incident Number nAPP2208846424 Ensolum Job Number: 03A1987014





Photograph 13 Date: 11/10/2022

Description: Delineation activities, Facing NE

Photograph 14 Date: 11/10/2022

Description: Delineation activities, Facing NE Position: +032,007495" / -103,965495" (±15,6ft)
Altitude: 2902ft (±10,9ft)
Datum: WGS-84





Photograph 15 Date: 11/10/2022 Description: Delineation activities, Facing NE

Photograph 16 Date: 03/24/2023

Description: Excavation activities, Facing West

Photographic Log

Devon Energy
Pecos Federal #001Y
Incident Number nAPP2208846424
Ensolum Job Number: 03A1987014





Photograph 17 Date: 03/24/2023

Description: Excavation activities, Facing SW

Photograph 18 Date: 03/24/2023

Description: Excavation activities, Facing NE



Photograph 19 Date: 04/11/2023

Description: Excavation activities, Facing SE



Photograph 20 Date: 04/11/2023

Description: Excavation activities, Facing SE

Photographic Log

Devon Energy
Pecos Federal #001Y
Incident Number nAPP2208846424
Ensolum Job Number: 03A1987014



Photograph 21 Date: 04/11/2023

Description: Excavation activities, Facing West



Photograph 22 Date: 04/14/2023

Description: Liner installation, Facing NW



Photograph 23 Date: 04/14/2023

Description: Liner installation, Facing SW



Photograph 24 Date: 04/14/2023

Description: Liner installation, Facing NE



APPENDIX D

C-141 Forms

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID:	nAPP2208846424
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

			IXCS	ponsibie i ai	ty .			
Responsible Pa	arty: WPX	Energy Permian	, LLC	OGRID:	246289			
Contact Name:	Jim Raley	y		Contact '	Contact Telephone: 575-689-7597			
Contact email:	jim.raley(@dvn.com		Incident	# (assigned by OCD): nAPP2208846424			
Contact mailin	Contact mailing address: 5315 Buena Vista Dr, Carlsbad, NM, 88220							
			Location	of Release S	Source			
Latitude	32.00729	937	(NAD 83 in d	Longitude lecimal degrees to 5 dec	-103.9659729 imal places)			
Site Name: Pec	os Federal	#001Y		Site Type	:: Oil Production Site			
Date Release D	iscovered:	3/21/2022		API# (if a	pplicable): 30-015-24875			
Unit Letter	Section	Township	Range	Co	unty			
P	27	26S	29E	Eddy				
	Material		all that apply and attac	d Volume of	ic justification for the volumes provided below)			
Crude Oil		Volume Releas	ed (bbls): 8		Volume Recovered (bbls): 3			
Produced W	/ater	Volume Releas	ed (bbls):		Volume Recovered (bbls):			
		Is the concentrate produced water	tion of dissolved >10,000 mg/l?	chloride in the	X Yes □ No			
Condensate	:	Volume Releas	ed (bbls)		Volume Recovered (bbls)			
☐ Natural Gas	3	Volume Releas	ed (Mcf)		Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide unit		de units)	Volume/Weight Recovered (provide units)					
containment of	allowed the which 3 b	obls was recovered	d. Winds allowed	approx. 2 bbls to i	released to secondary mpact soils offsite. recoverd fluids (bbls)			

Received by OCD: 5/8/2023 72:06:50 AMAM State of New Mexico Page 2 Oil Conservation Division

Page	<i>338</i>	Df !	357
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Incident ID:	nAPP2208846424
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?		
` ,		
☐ Yes 🛛 No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	Initial Ro	esponse
The responsible p	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	eve been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
		pest of my knowledge and understand that pursuant to OCD rules and
		fications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have
failed to adequately investigated	ate and remediate contamination that pose a thre	at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	f a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
Printed Name: Jim Raley		Title: Environmental Professional
101		
Signature:		Date: 12/29/2022
email: jim.raley@dvn.co	om	Telephone: 575-689-7597
OCD Oals		
OCD Only		
Received by:		Date:

	Page 339 of 3	<i>57</i>
Incident ID	nAPP2208846424	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>51-100</u> (ft bgs)				
Did this release impact groundwater or surface water?	☐ Yes ⊠ No				
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No				
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No				
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No				
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No				
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No				
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No				
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No				
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No				
Are the lateral extents of the release overlying an unstable area such as karst geology?	⊠ Yes □ No				
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No				
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No				
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.					
Characterization Report Checklist: Each of the following items must be included in the report.					
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs 					
N Photographs including date and GIS information					

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

□ Laboratory data including chain of custody

Topographic/Aerial maps

Received by OCD: 5/8/2023 7:06:50 AM State of New Mexico
Page 4 Oil Conservation Division

	Page 340 of 35
Incident ID	nAPP2208846424
District RP	

Facility ID

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: James Raley

Title: Environmental Specialist

Printed Name: <u>James Raley</u>	Title: Environmental Specialist
Signature:	Date: <u>04/21/202</u>
email: jim.raley@dvn.com	Telephone: <u>575-689-7597</u>
OCD Only	
Received by:	Date:
·	

Page 341 of 357

Incident ID	nAPP2208846424
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	included in the plan.				
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 					
Deferral Requests Only: Each of the following items must be con-	firmed as part of any request for deferral of remediation.				
☑ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.					
Extents of contamination must be fully delineated.					
☐ Contamination does not cause an imminent risk to human health	, the environment, or groundwater.				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Printed Name: Jim Raley	Title: Environmental Specialist				
Signature:	Date: <u>04/21/2023</u>				
email: jim.raley@dvn.com	Telephone: <u>575-689-7597</u>				
OCD Only					
Received by:	Date:				
Approved Approved with Attached Conditions of A	Approval				
Signature:	Date:				

NM OIL CONSERVATION

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

State of New Mexico Energy Minerals and Natural Resources

ARTESIA DISTRICT

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr.

NOV 10 2014

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

1220 S. St. Fran	cis Dr., Santa	Fe, NM 87505		Sa	nta Fe	, NM 875	05	KECEIVED			
Release Notification and Corrective Action											
nAB14	NAB143145 D115 OPERATOR Initial Report I Final Report										
Name of Co	Name of Company RKI E&P, LLC 24/0289				Contact	Zack Laird	<u> </u>		tunid		
Address				C, OK 73102			lo. 405-742-26				
Facility Nar	ne Pecos	Federal 001	Y		I	acility Typ	e Oil and Gas \	Well			
Surface Ow	ner Feder	al		Mineral C	wner	Federal		API No	. 30-015-2	4875	
LOCATION OF RELEASE											
Unit Letter	Section.	Township	Range	Feet from the		South Line	Feet from the	East/West Line	County		
P	27	268	29E		690 FS			660FEL	Eddy		
	i		Latitu	ide_32.0072945				188431			
r				NAT	URE (OF RELI					
Type of Relea			41 2 2 1 1 2	t 251-			Release 25Bbls		Recovered 2		
Source of Rel	ease Iran	ster Pump Suc	tion Line	Leak			our of Occurrence prior to 0800hrs 1		Hour of Disc – 0800hrs M		
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				e, formerly rubber					anamment.	v vacanni na	ick
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Describe Area	Affected a	nd Cleanup A	ction Tak	en.*							
All fluid rema	ined in line	d secondary o	ontainma	nt and was able to	ha rocas	arad with wa	anne trude				
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7.1 1	2 21 4 21 72	<u> </u>									
regulations all	y that the ir	rormation giver required to	en above report an	is true and compliation of the design of the design in the design of the	ete to the lease no	e best of my l tifications an	cnowledge and ur	nderstand that purs	uant to NM(ases which i)CD rules and mav.endanger	d l
public health	or the enviro	onment. The	acceptanc	e of a C-141 repoi	t by the	NMOCD ma	rked as "Final Re	port" does not reli	eve the oper	ator of liabilit	ty
should their of	perations ha	ive failed to a	dequately	investigate and re	mediate	contamination	n that pose a thre	at to ground water	, surface wa	ter, human he	alth
federal, state,				iance of a C-141,r	ероп во	es not reneve	une operator or r	esponsibility for co	ompliance w	ith any other	
							OIL CONS	SERVATION	DIVISIO	N	
Signature:	///						-			7	
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Printed Name:	Zack Lair	<u>d</u>				ppro.rea oy 1		Mu	\mathcal{A}		
Title: Sr. EHS	Manager				A	pproval Date	: 11/12/14	Expiration I	Date: N	4	
								1 2000			
E-mail Addres	ss: ZLaird@	grkixp.com	·	<u>.</u>	c	onditions of	Approval:		Attached		
Date: 11/10/1	4.		Phone:	405-987-2213							
Attobb Additi	- : - 1 O1 4	TCAT		·····	l						

Patterson, Heather, EMNRD

From: Zackary Laird <ZLaird@rkixp.com>

Sent: Monday, November 10, 2014 4:43 PM

To: Patterson, Heather, EMNRD

Cc: Hughes, Solomon; Kipper Folmar; Gene Thompson

Subject: RKI E&P Spill Notification and C-141

Attachments: NM_PecosFed001Y_SignedC141(111014).pdf

Heather.

Attached please find completed OCD form C-141 for a spill detected today at the RKI Pecos Federal 001Y well in Eddy County, NM (API # 30-015-24875). Because the spill volume was 25Bbls, I did try to reach you and left a voicemail on your mobile as well. Sol.

I do not believe that this spill, because it remained in lined containment, required notification to the BLM; however, I wanted to include you on this email in the spirit of open communication.

Please feel free to contact myself or a local RKI representative with any questions.

Kind Regards,

Zack Laird | Sr. EHS Manager

RKI Exploration & Production, LLC

210 Park Avenue, Suite 900 | Oklahoma City, OK 73102 405.987.2213 (o) | 405.742.2696 (m) | <u>ZLaird@rkixp.com</u>

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APPENDIX E

Email Correspondence

From: <u>Erick Herrera</u>
To: <u>Joseph Hernandez</u>

Subject: FW: [EXTERNAL] WPX Site Sampling Activity Update (11/7 - 11/11)

Date: Tuesday, December 20, 2022 4:46:57 PM

Attachments: image001.png

image002.png image003.png image004.png



From: Nobui, Jennifer, EMNRD < Jennifer. Nobui@emnrd.nm.gov>

Sent: Wednesday, November 2, 2022 3:58 PM **To:** Erick Herrera <eherrera@ensolum.com>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: FW: [EXTERNAL] WPX Site Sampling Activity Update (11/7 - 11/11)

[**EXTERNAL EMAIL**]

Erick

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,

Jennifer Nobui

From: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>

Sent: Wednesday, November 2, 2022 11:54 AM

To: Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov >; Nobui, Jennifer, EMNRD

<Jennifer.Nobui@emnrd.nm.gov>

Subject: FW: [EXTERNAL] WPX Site Sampling Activity Update (11/7 - 11/11)

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@state.nm.us

http://www.emnrd.nm.gov



From: Erick Herrera < eherrera@ensolum.com>
Sent: Wednesday, November 2, 2022 11:52 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov >; 'CFO_Spill, BLM_NM'

<<u>blm_nm_cfo_spill@blm.gov</u>>

Cc: Raley, Jim < jim.raley@dvn.com >; Devon-Team < Devon-Team@ensolum.com >

Subject: [EXTERNAL] WPX Site Sampling Activity Update (11/7 - 11/11)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following sites between November 7^{th} – November 11^{th} , 2022:

Site Name: LVP #001 API: 30-015-42234

Incident Number: nAPP2135033453

Site Name: RDX 21-44 API: 30-015-41193

Incident Number: nAPP2115533694

Site Name: UCBH WW ROW API: 30-015-24451, 30-015-24034

Incident Numbers: nAB1805133508, nAB1501655607, nAB1522341642, nAB1621453181,

nAB1633639499

Site Name: Ross Draw Unit #034

API: 30-015-41578

Incident Numbers: nAPP2107554265, NAB1736055339, and NAB1528240224

Site Name: Yates Federal #001

API: 30-015-24602

Incident Number: NRM2011138650 and NAB1428734057

Site Name: Pecos Federal #001Y

API: 30-015-24875

Incident Number: nAPP2208846424

Site Name: MWJ Federal 1

API: 30-015-24262

Incident Numbers: nAB1503440420, nAB1524652333, and nAB1719940724



PLEASE NOTE OUR NEW CORPORATE ADDRESS:

Ensolum, LLC 8330 LBJ Freeway, Ste. B830 Dallas, TX 75243 From: Raley, Jim
To: Devon-Team

Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 118553

Date: Tuesday, September 20, 2022 12:09:15 PM

Attachments: <u>image001.png</u>

[**EXTERNAL EMAIL**]

Pecos Fed 1 Y remediation plan approved with conditions.

Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | jim.raley@dvn.com



From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Tuesday, September 20, 2022 11:05 AM

To: Raley, Jim <Jim.Raley@dvn.com>

Subject: [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application

ID: 118553

To whom it may concern (c/o James Raley for WPX Energy Permian, LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2208846424, with the following conditions:

• Remediation Plan Approved with Conditions. Please address chloride concentrations in PH-13 at 2' (1,460 mg/kg).

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Jennifer Nobui
Environmental Specialist-Advanced
505-470-3407
Jennifer.Nobui@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

Confidentiality Warning: This message and any attachments are intended only for the use of

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From: <u>Erick Herrera</u>
To: <u>Joseph Hernandez</u>

Subject: FW: [EXTERNAL] WPX Site Sampling Activity Update (11/7 - 11/11)

Date: Tuesday, December 20, 2022 4:46:57 PM

Attachments: image001.png

image002.png image003.png image004.png



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Sent: Wednesday, November 2, 2022 3:58 PM **To:** Erick Herrera <eherrera@ensolum.com>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: FW: [EXTERNAL] WPX Site Sampling Activity Update (11/7 - 11/11)

[**EXTERNAL EMAIL**]

Erick

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,

Jennifer Nobui

From: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>

Sent: Wednesday, November 2, 2022 11:54 AM

To: Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov >; Nobui, Jennifer, EMNRD

<Jennifer.Nobui@emnrd.nm.gov>

Subject: FW: [EXTERNAL] WPX Site Sampling Activity Update (11/7 - 11/11)

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@state.nm.us

http://www.emnrd.nm.gov



From: Erick Herrera < eherrera@ensolum.com>
Sent: Wednesday, November 2, 2022 11:52 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov >; 'CFO_Spill, BLM_NM'

<<u>blm_nm_cfo_spill@blm.gov</u>>

Cc: Raley, Jim < jim.raley@dvn.com >; Devon-Team < Devon-Team@ensolum.com >

Subject: [EXTERNAL] WPX Site Sampling Activity Update (11/7 - 11/11)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following sites between November 7^{th} – November 11^{th} , 2022:

Site Name: LVP #001 API: 30-015-42234

Incident Number: nAPP2135033453

Site Name: RDX 21-44 API: 30-015-41193

Incident Number: nAPP2115533694

Site Name: UCBH WW ROW API: 30-015-24034

Incident Numbers: nAB1805133508, nAB1501655607, nAB1522341642, nAB1621453181,

nAB1633639499

Site Name: Ross Draw Unit #034

API: 30-015-41578

Incident Numbers: nAPP2107554265, NAB1736055339, and NAB1528240224

Site Name: Yates Federal #001

API: 30-015-24602

Incident Number: NRM2011138650 and NAB1428734057

Site Name: Pecos Federal #001Y

API: 30-015-24875

Incident Number: nAPP2208846424

Site Name: MWJ Federal 1

API: 30-015-24262

Incident Numbers: nAB1503440420, nAB1524652333, and nAB1719940724



PLEASE NOTE OUR NEW CORPORATE ADDRESS:

Ensolum, LLC 8330 LBJ Freeway, Ste. B830 Dallas, TX 75243

Erick Herrera

From: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>

Sent: Thursday, March 16, 2023 10:21 AM

To: Erick Herrera

Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD

Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (3/20 - 3/24/2023)

[**EXTERNAL EMAIL**]

Erick,

Thank you for the notification. The notification requirement is two full business days which would require notification at the latest at the end of the workday on Wednesday for Monday morning sampling. Also please indicate specific times, dates and locations for each sampling event. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | <u>Jocelyn.Harimon@emnrd.nm.gov</u>

http://www.emnrd.nm.gov



From: Erick Herrera <eherrera@ensolum.com> Sent: Thursday, March 16, 2023 8:41 AM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; 'CFO Spill, BLM NM' <blm> nm cfo spill@blm.gov>

Cc: Raley, Jim <jim.raley@dvn.com>; Devon Team <Devon-Team@ensolum.com> **Subject:** [EXTERNAL] WPX Site Sampling Activity Update (3/20 - 3/24/2023)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning,

WPX anticipates conducting confirmation soil sampling activities at the following sites between March 20 – March 24, 20023:

Site Name: Pecos Federal #001Y

API: 30-015-24875

Incident Number: nAPP2208846424

Site Name: RDX 9-1

API: 30-015-36211

Incident Number: nAB1728635377

Site Name: Federal G Gas Com #001

API: 30-015-20848

Incident Number: nAB1428733041

Thank you,



From: Ashley Giovengo Ronni Hayes To:

Subject: FW: [EXTERNAL] Pecos Federal #001Y - 48-hour Confirmation Sampling Notification - nAPP2208846424

Date: Wednesday, April 19, 2023 2:14:38 PM

Attachments: image001.png

image002.png image003.png image004.png



Ashley Giovengo

Senior Engineer 575-988-0055 **Ensolum, LLC** in f 💆

From: Ashley Giovengo

Sent: Thursday, April 13, 2023 3:20 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Raley, Jim <jim.raley@dvn.com>; Ashley Ager <aager@ensolum.com>; Anderson, Lacee

<lacee.anderson@dvn.com>

Subject: RE: [EXTERNAL] Pecos Federal #001Y - 48-hour Confirmation Sampling Notification -

nAPP2208846424

Hello,

Please extend this sampling notification to 04/14/2023.

Thanks,



Ashley Giovengo

Senior Engineer 575-988-0055 **Ensolum, LLC**

From: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>

Sent: Monday, April 10, 2023 10:01 AM

To: Ashley Giovengo <agiovengo@ensolum.com>; Enviro, OCD, EMNRD

<<u>OCD.Enviro@emnrd.nm.gov</u>>

Cc: Raley, Jim < <u>iim.raley@dvn.com</u>>; Ashley Ager <<u>aager@ensolum.com</u>>; Anderson, Lacee lacee.anderson@dvn.com>

Subject: RE: [EXTERNAL] Pecos Federal #001Y - 48-hour Confirmation Sampling Notification -

nAPP2208846424

[**EXTERNAL EMAIL**]

Ashley,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JΗ

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Ashley Giovengo agiovengo@ensolum.com>

Sent: Friday, April 7, 2023 4:27 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov >

Cc: Raley, Jim < <u>jim.raley@dvn.com</u>>; Ashley Ager < <u>aager@ensolum.com</u>>; Anderson, Lacee

lacee.anderson@dvn.com

Subject: [EXTERNAL] Pecos Federal #001Y - 48-hour Confirmation Sampling Notification -

nAPP2208846424

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hello,

We intend to take confirmation samples at the Pecos Federal #001Y - nAPP2208846424 starting on 04/11/2023 through 04/12/2023.

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,



District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 214379

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	214379
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Creat	dition	Condition Date
scw	tire tank battery containment delineated by PH01 is approved for deferral. Site will need to be remediated and then reclaimed at time of a major facility construction or at plugging and abandonment, whichever comes first.	1/23/2024